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ABSTRACT

A COMPUTER-ASSISTED APPROACH TO MICRO-ANALYSIS OF MELODIC LINES

by

David Alan Stech

The purpose of this thesis was to explore one approach to micro-analysis of melodic lines through the development and use of a computer program which would help the analyst locate specific types of melodic patterns. The program also provided supplementary information about the frequency-of-occurrence of each melodic interval from the unison through two octaves.

Specifically, the program designated the location of any of the following types of melodic patterns depending upon which of twenty-six optional analyses were selected by the program user:

- intervallically exact Original (0), Inversion (I), Retrograde
 (R), and Retrograde-Inversion (RI) pitch relationships;
- 2) tonal (i.e., direction only) O, I, R, and RI pitch relationships;
- 3) 0 or R rhythm regardless of pitch content (limited to analysis of rational rhythms only); and,
- 4) 0 or R rhythm appearing with any of the pitch relationships described in (1) or (2).

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The program analyzed melodic excerpts by first assigning identification numbers to various notes of the melody. These numbers were then used to designate the location of related melodic events in patternstatements which used the following format:

where A and B, and C and D, designated the beginning and end points of two melodic events contained in the music excerpt under analysis, X designated the relationship selected by the program user, and Y designated the number of notes contained in each event. The program was able to locate nearly all of the relationships fitting the criteria for each of twenty-six analyses regardless of length of pattern, and regardless of notational differences which might have caused certain relationships to go unnoticed by a music analyst. The number of patternstatements located for each analysis depended upon the length of the excerpt, the melodic construction of the excerpt itself, and the level of sophistication of the patterns selected by the program user.

The results of each computer analysis were presented in two ways:

first, in a series of lists which presented the pattern-statements in

order of increasing length from three notes to as long as was necessary

to accommodate the lengthiest pattern; and second, in a format which

showed the subpatterns which appeared most frequently within the

lengthiest pattern (or patterns) found in the analysis.

Melodic pattern analysis was chosen as the subject for development of the program, because the importance of perception of melodic events to both the listener and the composer has been suggested by composers, music analysts, and other investigators. It seemed likely, therefore,

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that the development of a computer program to assist in identifying certain types of melodic patterns might be of value to a number of areas of study.

The program was written in the FORTRAN IV program language. Since none of the existing methods used for converting music to computer input data was found to be applicable to this project, another encoding procedure was developed especially for use with this program. A source listing of the program, as adapted for use on an IBM 360 computer, was included with the thesis.

The thesis was limited to this one approach of analyzing melodic lines. The program was limited in the following ways:

- it was limited to the analysis of strictly linear music;
 i.e., music in which a fixed number of voices was defined;
- 2) no vertical or harmonic analysis was attempted; and
- 3) the program was not designed to read or analyze irrational rhythms.

Music examples by Varese, Hindemith, and Dunstable were encoded and analyzed in order to illustrate the type of information which the program provided and how the music of different stylistic periods could be analyzed with the program.



A COMPUTER-ASSISTED APPROACH TO MICRO-ANALYSIS OF MELODIC LINES

by

David Alan Stech

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CHAPTER I

INTRODUCTION

Statement of the problem

Analyzing and defining the factors which affect the succession of tonal events in a musical composition is a complex task. It requires the analyst to evaluate particular musical events within the context of the prevailing musical style and, as best he can, abstract those elements which appear to affect significantly the aural logic of the composition. Through such a method, the analyst hopes to define more clearly, in his own mind, how successfully the composer develops his musical material without violating his own sense of musical logic or order.

The depth of study required for a musical analysis is determined by the particular goals of the analyst. If the analyst wishes to draw a few general conclusions concerning a large number of compositions, then he may not need to analyze each work in detail to complete his task. If, however, his task is to analyze a particular composition with respect to its formal structure as well as its harmonic and thematic content, then a more detailed analytical approach will be required. The analyst who wishes to delve still further into the smaller determinations of musical style will probably draw his conclusions after examining still smaller harmonic and melodic usages. It is this most detailed form of analysis, or micro-analysis, with which this study is concerned.

Music micro-analysis brings with it a number of problems, some of which are so great a burden that this type of analysis is not frequently

The most serious problem associated with such an approach is employed. the extraordinary amount of time needed. Granted the fact that all detailed music analysis requires time, a music excerpt of moderate size can suddenly appear enormous when the analytical process requires the examination and labeling of many small bits of information. Another problem associated with these time requirements is that such a minute and detailed examination of music is a physically tiring process. As a consequence, fatigue can affect the accuracy of the analysis. A third problem which must be considered has to do with the musical literacy of the analyst. If, for example, the analyst is attempting to tabulate some frequently-used rhythmic patterns from the Baroque era, his knowledge of Baroque music can both help and hinder his ability to conduct the analysis. If he has examined a great deal of Baroque music, he may be able to tabulate relatively quickly the patterns which are most However, rhythmic patterns which are not so familiar familiar to him. may be harder for him to locate, or may possibly escape his notice altogether.

With respect to the first two problems, it is clear that unless the analyst has an extraordinary amount of time and energy at his disposal, micro-analytical studies cannot be undertaken unless the amount of music to be studied is kept small. In addition, such analyses must have a great enough probability for obtaining usable results to warrant such projects; speculative or exploratory analysis, in which the outcome is less than certain, cannot be undertaken, if the likelihood of positive results appears too insignificant to justify the effort.

Many prominent authors commenting on music have pointed out the relative importance of smaller musical patterns and their structural

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importance to the composition in which they are found. Some psychologists have also commented upon the importance of small musical patterns and their possible effect upon our perception of larger tonal groupings. Considering the potential importance of such patterns, it would seem likely that if some of the practical problems associated with locating such patterns could be reduced, further exploration in this area could be undertaken.

The application of computer technology to this task can provide assistance with respect to some of the problems previously mentioned. The ability of a computer to process numeric or symbolic information quickly and accurately is well known. However, there are very few computer programs presently available to provide assistance to those who wish to explore the potential of music micro-analysis. The purpose of this thesis, then, is to provide the music analyst with a computer program which will assist him in exploring one possible approach to the problem of abstracting information concerning certain types of melodic patterns in linear musical compositions.

The computer program designed for this thesis performs a number of different analytical tasks. Through his selection of twenty-six different options, the program user may call for lists of identical or similar repeated melodic patterns which show the following relationships to a prior statement of the pattern: original, inversion, retrograde, or retrograde inversion. The computer program not only lists the number of events for the specified category, but also indicates precisely where each of the patterns was found. The user may also determine the locations of patterns which exhibit (within limitation) the presence of exact rhythm or exact rhythm retrograde. It is also possible

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for the analyst to request locations of combinations of rhythmic and tonal elements within one group if he suspects that such patterns may exist; e.g., call for a list of melodic patterns which exhibit both exact rhythms and exact melodic inversion with respect to a previously stated pattern. In addition to these options, each analysis provides tables which list the frequency-of-occurrence of melodic intervals from the unison through two octaves.

The program has been designed so that no computer programming experience is needed to use it. In addition, the process of translating the musical score into the form needed for computer input may be accomplished by anyone with a knowledge of the fundamentals of music. It is hoped that the availability of this program will, in part:

- 1) assist and encourage the music analyst to employ micro-analysis in his study of melody by reducing some of the time and accuracy limitations which have previously hindered such analysis;
- 2) provide the analyst with an analytical tool which has sufficient flexibility to justify the amount of time needed to prepare the musical score for computer input; and
- 3) provide a tool which will locate musical patterns without requiring any prior analysis by the music analyst, so that a user's unfamiliarity with a particular musical style will not adversely affect the result of the pattern search.

Limitations of study

The thesis is limited in the following ways:

1) It explores only one possible approach to the task of analyzing

- melodic lines; no vertical or harmonic analysis is attempted.
- 2) The computer program is designed to analyze linear music only; i.e., music in which a precise number of voice parts is defined.
- 3) The computer program is limited as to the complexity of the rhythms it can accept for analysis. These limitations are defined later in the thesis.
- the exact category of physical construction specified by the program. No measurement or simulation of aural perception is attempted.
- 5) The computer program is limited with respect to the amount of data it can process, and also with respect to the thoroughness of the pattern analyses it performs. These limitations are described later in the thesis.

Definition of terms

- Encoding refers to the process of translating the musical score into a form suitable for computer input.
- Computer refers to a high-speed electronic machine which processes numeric or symbolic data according to directions specified by a computer program.
- Computer program is an ordered list of instructions which generate a sequence of machine instructions to achieve a specified result. Computer programs are sometimes referred to as algorithms.
- Irrational rhythm refers to rhythms which are not normal subdivisions

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of the prevailing meter; e.g., in simple meter, subdivisions of 3, 6, 7, or 13 are considered irrational subdivisions; similarly, in compound meter, 2, 4, 7, or 13 would also be considered irrational subdivisions.

- Linear musical composition is defined, for purposes of this thesis,

 as a work in which a precise number of voice parts is present
 throughout the work.
- Music micro-analysis refers to the process of abstracting information about musical style by means of analysis of small musical occurrences.

The importance of small repeated musical patterns

It is not yet possible to define accurately the mental processes used by music analysts or to predict the precise outcome of their analytical studies. This is at least partly due to the fact that each analyst is influenced not only by his own perception of the music under current study but also by his perception of music literature which he has previously studied. When music analysts subject a given work to detailed examination, they frequently note what they perceive to be similarities or contrasts in musical usage. Such an analytical approach would seem to be based on their experience that musical compositions which sound logically organized consist, not of a great number of totally unrelated musical statements, but rather of a more limited number of ideas which tend to reappear in reshaped forms.

Again, given the uniqueness of each musical analyst, it is impossible to predict with precision which tonal relationships he will perceive as transformed, developed, or other modified versions of earlier

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heard musical material. It is clear, however, that any perceived transformation, development, or other musical variant of some earlier musical fragment implies repetition of some similar musical element.

In the case of melodic writing, Heinrich Schenker believed that such repetition must occur within close proximity to the first musical occurrence of a pattern to be perceived as a motif:

Any series of tones may become a motif. However, it can be recognized as such only where its repetition follows immediately. As long as there is no immediate repetition, the series in question must be considered as dependent part of a greater entity

Only by repetition can a series of tones be characterized as something definite. Only repetition can demarcate a series of tones and its purpose. Repetition thus is the basis of music as art. It creates musical form, just as the association of ideas from a pattern in nature creates the other forms of art.1

The Hungarian composer Alois Haba consciously attempted to compose music in such a manner to avoid musical repetition of any type. Karl Eschman commented upon one such attempt:

Let us consider . . . Alois Haba's claim that in his Second String Quartet he has arrived at a style distinguished by "free arrangement of the thoughts, by the complete lack of repetition or of transposition of shorter fractional parts." When we examine his Quartet we find, nevertheless, that repetition is present both in the use of rhythmic figures and of melodic fractions. In the sixty-two measures of this movement Haba uses quarter-tones throughout a range extending from c to g'' — perhaps in an effort to avoid repetition. The quarter-tones, however, merely double the material available and do not solve the formal problem of constructing a melody without some repetition in design.²

Heinrich Schenker, <u>Harmony</u>, trans. by Elisabeth Mann Borgese (Chicago: University of Chicago Press, 1954), pp. 4-5.

²Karl Eschman, Changing Forms in Modern Music (Boston: E. C. Schirmer Music Company, 1945), pp. 19-20.

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Eschman later concluded: "There remain the two requirements for the production of any form: some differentiation of materials, and some relation of these differentiated materials by repetition."

It is not the purpose of this thesis to suggest that composers of well-organized music consciously attempt to construct their thematic or rhythmic variants, although such an approach would certainly be possible. It seems more likely that small musical patterns may frequently occur as a result of unconscious effort within a larger structure, such as a musical phrase. Rudolph Reti speculated upon how he believed a composer varied his materials:

"theoretically," first deciding, as it were, upon an "inversion" and then trying to find out how it should read. No, whenever a theme rises in the ear of a structurally trained composer, all kinds of possible transformations will at once flash across his mind. If among these, as in this individual instance, the inversion seems the most fitting, he would accept it as a basis but then shape the new theme as freely as his imagination requires, not caring, indeed, not wishing, that the detail of the second theme should strictly correspond to the first."

Psychologists Herbert Simon and Richard Summer are conducting research into the development of a pattern-description language. They anticipate using such a language to acquire information useful for a number of areas of study. Their goals reflect a psychologist's view of the importance of musical patterns:

One of the purposes of analyzing musical structure and form is to discover the patterns that are explicit or implicit in musical works. Pattern in music is generally described

³Ibid., p. 23.

Rudolph Reti, The Thematic Process in Music (London: Faber and Faber, 1961), p. 70.

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. . . "the chord is a <u>G</u> seventh," "the slow movement is written in 3/4 time." The pattern description language
. . . may prove useful both in psychology and in music theory. As a tool in psychology, it can be used to try to arrive at an understanding of the cognitive activity of the music listener. As a tool in music theory, it may be used to provide rigorous descriptions of musical pattern as a prerequisite for the characterization and comparison of style. ⁵

There are several published comments which seem to support the need for analysis of small musical patterns. Béla Bartók believed that such analysis was essential for a complete understanding of folk music:

Only a systematically scientific examination of the morphological aspects of folk music material (consisting first of grouping the material according to certain methods, and then, of describing the typical forms and structures which will appear in a material thus grouped) will enable us to determine clearly the types and to draw various conclusions concerning transformation, migration of melodies, their connection with foreign materials, etc. . . . 6

Herbert Eimert has also recognized the need for such analysis in twelvetone music: "It will be clear that the interval and row analysis does
not say anything about the musical meaning of the piece. . . . [T]he row
analysis must be supplemented by motivic and thematic analysis."

Louis Milic has commented upon the importance of smaller patterns to
study in the arts and letters and how the computer may be useful in
such studies:

Herbert A. Simon and Richard K. Sumner, "Pattern in Music," in Formal Representation of Human Judgment, ed. by Benjamin Kleinmuntz (New York: John Wiley and Sons, Inc.: 1968), p. 219, p. 250.

Béla Bartok, Rumanian Folk Music, ed. by Benjamin Suchoff (3 vols.: The Hague: Martinus Nijhoff, 1967), back portion of dust cover.

Herbert Eimert, <u>Lehrbuch der Zwoelftontechnik</u> (Wiesbaden: Breitkoph and Haertel, 1952), as cited by Heinrich Lemacher and Hermann Schroeder, <u>Musical Form</u>, trans. by Robert Kolben (Cologne: Musikverlag Hans Gerig, 1967), p. 100.

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. . [U]nderstanding in the arts and letters is based upon perception, identification, and recognition of patterns. But the patterns must be small and traditional enough to be perceived by the human apparatus. . . . Unlike the human perceiver, however, the computer can be made to detect the longest and best-concealed pattern, no matter how random an appearance it presents to the human eye. Thus we must learn to ask it larger questions than we can answer and to detect what escapes our un-aided senses. This may involve not only proposing old questions in new ways but even thinking up new questions. The computer can be made an extension of man only if it opens avenues we have not suspected the existence of.

It seems logical to conclude that further research into the nature of small musical patterns may give us insight into the mental processes of both the listener and the composer.

Related research

Various pieces of related research have been examined in connection with this thesis. This research was studied for the following reasons:

- to gain an overview of the current state of progress with respect to computer-assisted studies in micro-analysis;
- 2) to see how the musical data were prepared for use with such studies; and
- 3) to gain an insight into the problems and limitations of micro-analytical study and to determine some of the types of musical conclusions which may be drawn from such methods.

This section will begin with a brief examination of some of the research material considered relevant to this study. Conclusions and observations will then be made considering the points previously mentioned. It should be noted that not all of the studies examined were computer-assisted,

Louis T. Milic, "The Next Step," Computers and the Humanities, Vol. 1, No. 1 (September, 1966), pp. 4-5.

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and only a small part of the research examined will be discussed below.

In 1937, Otto Ortmann conducted a study which seems to have gone unnoticed by recent scholars. He examined the vocal melodies of Schumann, Brahms, and Richard Strauss to determine whether the frequencyof-occurrence for various melodic intervals was a determinant of their vocal melodic style (independent of rhythm and text considerations). He conducted his study on 48 songs of Schumann, 38 songs of Brahms, and 40 songs of Strauss. His conclusions were that a composer's style is partially reflected by the frequency with which various intervals were used. He noted that Schumann's melodies were characterized by a high frequency of unisons, an absence of wide intervals, an absence of chromatic inflection, and a frequency order (from most to least frequent) of unison, major second, and minor second; that Brahms' melodies employed a low frequency of unisons, a preference for thirds, a relatively high frequency of chromatic inflection, and a frequency order of major second, minor second, and unison; and that Strauss' melodies exhibited a high frequency of wide intervals and a lack of uniformity in any frequency order. 10

This type of interval study has been repeated by later researchers with different types of music; however, Ortmann's insight into the problem was impressive, considering the year in which the study was conducted. He noted that, since an interval profile for any composer would be influenced by the type of instrumentation used, and since vocal melodies would be influenced by the text, it would be necessary to use

Otto Ortmann, "Interval Frequency as a Determinant of Melodic Style," Peabody Bulletin (December, 1937).

¹⁰ Ibid., p. 10.

large samples of music for such studies. He also stated that a high frequency-of-occurrence for a particular interval did not necessarily mean that the interval had the strongest musical effect. This, he believed, would be dependent upon the distribution of the prominent interval throughout the excerpt. He also noted that the high frequency-of-occurrence of smaller intervals over larger ones could not be attributed to any particular composer, but was instead a characteristic of the vocal style of the period. The strength of Ortmann's study lies in his realization of its limitations:

The individuality or style of a composer is necessarily contained in the melodic, harmonic, and rhythmic elements of his works, although to these should be added any characteristic tempi, phrasings and dynamics. Melody, harmony, and rhythm — since they are simultaneously present — must be interactive, and for any adequate study of style all three must be analyzed. Any attempt, therefore, to trace style in a single element must remain a partial analysis, giving but an incomplete picture. Nevertheless, such an analysis will show to what extent the particular element studied contributes to the style. 11

A much more familiar study appeared in 1947 as part of Allen McHose's text, The Contrapuntal Harmonic Technique of the 18th Century. Since this text is well known, the principles and conclusions contained in it need not be repeated here. It should be pointed out, however, that the research results upon which the book was based were obtained through methods which required the statistical tabulation of different types of root movements, harmonic inversions, chord doublings, and voice-leading as exhibited in the chorales of J. S. Bach and other

¹¹ Ibid., p. 3.

Allen Irvine McHose, The Contrapuntal Harmonic Technique of the 18th Century (New York: Appleton Century Crofts, Inc., 1947).

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man-hours to complete, McHose was able to formulate his principles and conclusions concerning Bach's contrapuntal-harmonic style. The pedagogical influence of this text and McHose's conclusions concerning Bach's chorale style are well established; the purpose of mentioning his work in this study is to remind the reader that his results were based upon one of the most successful micro-analytical studies every conducted.

While the McHose study limited itself to the task of defining the most characteristic elements of Bach's harmonic style, it has since been shown that it is possible to measure changes within a harmonic style through the use of such procedures. Dean Wilson demonstrated this possibility in his study of the harmonic content of the six symphonies of Carl Nielsen. 13 The task, which required the detailed analysis of twenty-two separate movements, resulted in the labeling of more than 12,000 chords and 10,000 root movements as well as further subclassification of these entities according to their construction and type of movement, respectively. By comparing the frequency with which various sonorities and root movements appeared in each symphony, Wilson was able to notice the gradual dissolution of some prominent characteristics of Nielsen's harmonic style as well as the simultaneous emergence of new harmonic characteristics in his style. He noted, for instance, the decrease in the use of major-minor and fully diminished seventh chords, and an increase in the use of the diminished-minor seventh chord from the

Dean C. Wilson, "An Analytical and Statistical Study of the Harmony in Carl Nielsen's Six Symphonies" (Unpublished Ph.D. dissertation, Michigan State University, 1967).

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While the process of labeling and categorizing specific chords and root movements must have been a lengthy one for this study, such an organized and thorough approach provided the analyst with a strong statistical base from which a more objective and detailed measure of the composer's change in harmonic style could be measured. Studies such as this, which base their conclusions upon many specific observations, are more preferable to some scholars than analytical studies which base their conclusions upon a less rigorous and more cursory examination of the music.

In contrast to the studies previously mentioned, from which conclusions concerning specific stylistic traits were derived, William Paisley, a communications specialist, conducted a study in which he attempted to distinguish between the styles of composers without attempting to define particular stylistic traits. The premise of his study was the belief, shared with other scholars, that clues to

¹⁴Ibid., p. 393.

^{15&}lt;sub>Ibid., p. 391.</sub>

¹⁶ Ibid., p. 393.

William J. Paisley, "Identifying the Unknown Communicator in Painting, Literature, and Music: The Significance of Minor Encoding Habits," Journal of Communication, Vol. 14, No. 4 (December, 1964), pp. 219-237.

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identifying the style of a work are contained, not in the most prominent aspect of the work, but rather in the "minor encoding habits which are inconspicuous in the work and do not carry any burden of meaning" 18; e.g., an author's preference for using particular conjunctions more than others, or the way in which an artist sketches in the background or filler material.

The purpose of his study was to see whether it would be possible to identify with probable certainty the composer of an "unknown" musical excerpt given the fact that the excerpt was written by one of seven composers. The identification method required that the statistical characteristics of the unknown excerpt be compared with that of the known excerpt to see whether they had similarity to indicate probable authorship. Statistical tests (measuring pitch changes only) were conducted upon melodic excerpts of Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, and Brahms which were randomly drawn from Barlow and Morgenstern's Dictionary of Musical Themes. In one of the analyses, unknown excerpts (actually written by Handel, Mozart, Beethoven, and Mendelssohn) were compared with known excerpts of Bach, Haydn, Mozart, Beethoven, and Brahms. The results showed that each composer was given at least a 50-50 chance of having written his own excerpt but that the odds that the same composer did not write the known sample of the other composers exceeded 1,000 to 1. The strongest statistical distinctions occurred between Bach and Brahms, and Haydn and Beethoven. Distinctions between Haydn and Mozart could be determined at odds of success at no less than

^{18&}lt;sub>Ibid.</sub>, p. 220.

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The success of this study was extraordinary, considering the many musical variables not measured and the source of the musical excerpts used. Considering the limitations upon the study, Mendel commented upon the potential of future investigations:

Working with data like this [sic], [Paisley] nevertheless succeeded in identifying with enormous probability the author of his samples. . . . [I]t must tell us something about the constituent style if you can tell the composers apart. It tells Haydn and Mozart apart with chances of more than 1,000 to one. It therefore must tell us something we didn't know. . . . This is a remarkable example of the naivete that afflicts these investigations and at the same time, of their remarkable possibilities. 20

A computer-assisted study of some of Ockeghem's music was completed by Curry in 1969. 21 The computer program used for this study was designed, in part, to measure the size of harmonic intervals which appeared above the lowest sounding voice, followed by an analysis of the types of melodic movement into and out of these intervals. It was also designed to provide information concerning the resolution of certain vertical sonorities found in the selected compositions. Since few music examples were provided to illustrate precisely how a musical event would be interpreted by the computer program, it was difficult to determine how the computer results would reflect changes in the many variables which would affect such a two-dimensional analysis. It was also

¹⁹Ibid., p. 234.

Arthur Mendel, quoted in Barry S. Brook, ed., <u>Musicology and the</u> Computer (New York: City University of New York Press, 1970), p. 41.

Jerry L. Curry, "A Computer-aided Analytical Study of Kyries in Selected Masses of Johannes Ockeghem" (unpublished Ph.D. dissertation, University of Iowa, 1969).

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unfortunate that Curry chose not to discuss in more detail some of the musical considerations which prompted him to use his particular analytical approach; however, the study seemed successful in that he was able to make many observations with respect to Ockeghem's use of vertical sonorities and the type of melodic movement related to these sonorities.

The use of computer-assisted methods has also been applied to the analysis of serial compositions. In 1969, Donald Pederson completed the development of a computer program which was designed to identify related versions of a tone row after the original row was manually defined and submitted to the computer along with the music to be analyzed. The program, which was used to analyze some works of Webern, was also able to detect subsets related to the original row as well as subsets which were independent. It was also able to note the relationship between octave placement and use of the row.

One of the computer-generated graphs used with the study "displays pitch patterns within each instrumental line and shows interaction of line patterns."²³ This graph is especially important with respect to the present study. It was constructed so that all of the pitches found in the music under study were plotted over a time-line designated periodically by measure numbers, and might be further described as a computer-generated condensed score. In his interpretation of some of the graphic results, Pederson commented: "It should be apparent from [the

Donald M. Pederson, "Some Techniques for Computer-aided Analysis of Musical Scores" (unpublished Ph.D. dissertation, University of Iowa, 1968).

²³Ibid., p. 35.

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example shown] that each instrumental line has a distinct pattern or shape, and that each line contains subpatterns. **24* While this graph did display the interaction of each voice part to a certain extent, it did not define or indicate specific melodic patterns as his statement implied. The reader was required to abstract these patterns for himself just as if he were analyzing a score. The type of graph previously described was useful in that it presumably provided a clearer representation of the interweaving of melodic lines than might be found in the original score; it was not, however, designed to abstract or define particular pitch patterns. This study was interesting because it showed some of the possibilities for applying computer-assisted methods to the analysis of serial music; unfortunately, it was written in such an uncompromising style of theoretical jargon that many scholars may be discouraged from reading it.

Also in 1969, Jens Hanson attempted to determine the extent to which repeated rhythmic patterns corresponded to divisions of formal structure. The study was based upon the analysis of selected string quartets of Haydn, Mozart, and Beethoven. The analytical procedure used for the study required that the rhythmic content of each measure first be compressed into a composite rhythm representation which Hanson referred to as a "pattern of signals." The pattern of signals for each measure was then compared with the pattern of signals for the next adjacent measure to determine whether they were identical. Successive

²⁴Ibid., p. 63.

Jens L. Hanson, "An Operational Approach to Theory of Rhythm" (unpublished Ph.D. dissertation, Yale University, 1969).

measures with identical patterns of signals were noted and later compared with the manually conducted formal analysis to determine whether the changes in the rate of repetition were related to the formal divisions as determined by the manual analysis.

An examination of the results showed that the computer program used for the study did not detect many instances where adjacent measures exhibited identical patterns of signals. Those instances where identical patterns were located seemed to show a very slight consistency in the way they related to the formal analysis provided with the study. Possibly because so few patterns were discovered, Hanson described his results in terms of nonrepetition rather than repetition:

From the graphs. . . it can be seen that there is a close agreement between the changes in rate of nonrepetition and formal structure. That is, without exception each formal division contains a rate which is different from the one that precedes or follows it. Since the rate of repetition is related to the rate of nonrepetition, we may say that changes in the rate of repetition of the measures in a pattern of signals correspond to changes in formal structure in these five examples. Since a change in the rate of repetition is effected by the introduction of new measures in the pattern of signals, we may generalize to say that the rate at which new patterns of signals are introduced is an indicator of the form. 26

The relationship of repeated patterns of signals to formal structure was never clearly defined:

- 1. The rate of repetition is used primarily to indicate that a formal section is continuing even though the music may have changed considerably. A new rate of repetition is associated with any new formal section.
- 2. The rate of repetition is not used to define the precise boundary of a formal section. Changes in rate occur near a boundary of course, but the exact boundary is indicated

²⁶ Ibid., pp. 123-124.

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by a detail such as a change in harmony, a cadence, a silence, or the reappearance of a characteristic theme. A change in rate of repetition will not be interpreted as a formal boundary and this is the special importance of the rate of repetition as an indicator of formal structure. Without such an indicator every change in harmony, every cadence, every silence, or every reappearance of a theme would be a new formal division.²⁷

There were, at least, two possible reasons why Hanson's computer program did not reveal some rhythmic patterns which were clearly visible to the eye. 28 One reason may have been that the practice of compressing all of the attack points within a measure to one composite representation may have caused enough rhythmic information to be lost that, in some instances, obvious rhythmic similarities became unrecognizable to the computer. Such a possibility is illustrated in the following examples:

Voice 1	תו, תת	Voice 1	MМ	γJΠ
Voice 2	תי, תת	Voice 2	mm	y) []
Voke 3	תו, תת	Voice 3	mm	I Ly
Voice 4			, J , J	
Composite Rhythm	תת, תת			

^{27&}lt;sub>Ibid.</sub>, p. 158.

²⁸ For a discussion of some of these instances, see <u>ibid</u>., pp. 138-156.

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Note that, although the individual voice lines for each example are nearly identical with respect to rhythmic content, the composite attack-point representation for each example is different, and is therefore totally dissimilar according to the definition used by the computer program.

Another reason why some rhythmic patterns were not detected may have been due to the fact that the barline was used to define pattern length. The reasons given for this approach were not clear. In his discussion of the problem, Hanson first implied that barline placement may have had structural importance in the music analyzed, but later suggested that convenience may have been the reason for this procedure:

In order to examine repetitions in the pattern of signals, some segment of that pattern must be selected so that different segments can be compared. The segments should be comparable in size, and although completely arbitrary segments might be workable, segments which have the possibility of being structurally important would be better.

. . . Formal divisions tend to coincide with measure divisions. Furthermore, the content and the boundaries of each measure can be defined. The measure, then, will give us a segment of the pattern which will meet all of our requirements.

The use of measure segments is not meant to imply that the measures are heard as a unit by any listener. That may or may not be the case. The measure is used not because it is known to have any special significance but because it meets the requirements of definability, comparability, and convenience for the operands in our study.²⁹

The question of alleged structural importance of the barline aside, it seemed that the use of one arbitrary unit of pattern length limited the effectiveness of the computer program in that such a procedure prevented the recognition of any rhythmic pattern which did not rigidly correspond to placement of the barline. For instance, rhythmic patterns

²⁹Ib<u>id</u>., p. 78.

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which contained upbeats were not detected due to this reason. Despite these restrictions, however, Hanson's method of analysis apparently revealed enough information to support some of the assertions made in the study, and did demonstrate the possible use of computers for such analysis. In addition, it also demonstrated some of the problems and complexities associated with translating an analytical concept into an equivalent computer program.

In 1969, Stephan Kostka completed a study of the Hindemith string quartets which illustrated how many types of stylistic information could be obtained through the use of computer-assisted methods. 31 Because of the length of the study, only the procedures and conclusions most relevant to this thesis will be described.

The study began with the usual interval analysis. The results were listed in tabular form according to interval size and direction, and again grouped according to Hindemith's classification of intervals. Kostka noted, in part, that "in both early and late quartets seconds of all kinds form the most common group of intervals, followed by thirds and then perfect fourths. Most seconds are minor with major seconds outranking the next most common group, the minor third. Sixths, sevenths, and tritones are uncommon throughout. . . ."³²

Since the frequent use of the perfect fourth interval is associated with Hindemith's musical style, the study attempted to measure this

³⁰Ibid., p. 78.

³¹ Stephan M. Kostka, "The Hindemith String Quartets: A Computer-Assisted Study of Selected Aspects of Style" (unpublished Ph.D. dissertation, University of Wisconsin, 1969).

³²Ibid., p. 263.

characteristic in his melodic style by using the computer to measure the number of occurrences of the melodic pattern $\underline{C} - \underline{F} - \underline{B}$ -flat and its inversion $\underline{C} - \underline{G} - \underline{D}$ in any transposition or octave disposition. These constructions occurred 123 times (mostly in the later quartets); however, Kostka noted that their placement within the melodic line would also have to be considered in assessing their overall aural importance upon Hindemith's melodic style. 33

Another analysis designed to determine whether Hindemith preferred to use intervals in root position or inversion ³⁴ showed that root-position intervals were used more frequently than their inverted forms. The perfect fifth, major third, minor seventh, and major seventh intervals were used more frequently than their inverted forms: perfect fourth, minor sixth, major second, and minor second, respectively. ³⁵

A number of analyses were conducted to gain insight into the nature of Hindemith's harmonic style. One analysis was used to determine which sonorities were most commonly used (assuming all tones to be harmonic and excluding octave duplication). This analysis yielded thirty-five different sonorities from which Kostka chose to report only those chords which occurred at least two percent of the time in at least one quartet. These sonorities were described as mildly dissonant, and many consonant intervals were frequently employed. 36 It was also determined that,

³³Ibid., pp. 264-265.

As described in Paul Hindemith, The Craft of Musical Composition, trans. by Otto Ortmann (New York: Associated Music Publishers, 1941), p. 87.

³⁵ Kostka, "Hindemith String Quartets," p. 274.

³⁶Ibid., p. 280.

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quartets most frequently employed tertial harmony, the middle-period quartets used predominantly two-note and whole-tone sonorities, and the late quartets were characterized by the use of two-note sonorities as well as tertial, whole-tone, and quartal harmony. The study further determined that Hindemith employed Class III harmonies more than any other harmonic classification, and that Class II and Class IV harmonies were used more frequently than Class I harmonies in the early quartets, but the reverse was true for the later quartets. Another analysis, which was conducted to determine the number of different pitches (ignoring unison and octave doublings) contained in these sonorities, showed that the earlier quartets most frequently employed chords consisting of four, three, and two different pitches (listed in descending order of frequency), but later quartets consisted predominantly of chords with three, two, and four different pitches.

Additional analyses were conducted for the purpose of gaining information about the frequency of root occurrences; however, these results were inconclusive. With the exception of these latter analyses, Kostka stated: "All of the remaining areas of inquiry seem from the results to have been successful in that definite stylistic consistencies,

³⁷Ibid., p. 274-275.

³⁸Hindemith, Craft, pp. 94-108.

³⁹ Kostka, "Hindemith String Quartets," p. 274.

⁴⁰Ibid., p. 285.

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trends, or discontinuities could be noted."41

The purpose of examining these (and other) research studies was previously described as an attempt to assess the progress of computer-assisted studies in music micro-analysis, to determine how the data were prepared for computer input, and to assess the problems and limitations of micro-analytical study. On the basis of the research examined for this study, the following conclusions and observations are made.

An examination of some of the computer-assisted research related to music analysis showed that there are nearly as many areas of investigation as there are investigators, and that the effectiveness of many of the most recently reported studies cannot be determined since they are still in progress. In addition, the studies examined varied widely with respect to the program languages used and the program methods employed.

There are apparently several reasons why such diversity exists.

First of all, while micro-analytical studies have been employed in other areas of the humanities for many years (linguistics studies of this type date from 1851), 42 such applications to music research have been developed only recently. Most computer-assisted approaches to this problem have also been developed within the last decade. The result has been that many researchers are still using the computer to help define some of their most basic analytical procedures with sufficient precision to allow them to develop more effective computer programs. Consequently, the answers to specific musical questions have not appeared as quickly as

⁴¹ Ibid., p. 286.

⁴² Richard W. Bailey, "Statistics and Style: A Historical Survey," in <u>Statistics and Style</u>, ed. by Lubomir Dolezel and Richard W. Bailey (New York: American Elsevier Publishing Co., Inc., 1969), p. 217.

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researchers originally had hoped.

Another problem which has slowed the progress of such study has been that most music analysts have been forced to write their computer programs with program languages which are not designed for such purposes. This has caused many researchers to realize their analytical intentions by using rather circuitous program techniques which, in turn, have caused delays in program development and inefficiency in program design. Although new program languages are currently being designed for musical applications, they are not yet generally available or as fully supported as the older, more scientifically-oriented languages.

The problem of preparation of the musical score for computer input has yet to be satisfactorily solved. Currently, the most frequently used approach requires that the scores be encoded by means of various alpha-numeric systems and then punched onto cards or some similar device which can be used to transfer the data to the computer for processing. 43 There are many encoding systems currently in use, each of them, in the words of Kostka, "conceived by a scholar whose appreciation of conventional notation has probably increased immensely from the experience." The encoding systems which seemed to appear most frequently were the Ford-Columbia system, also referred to as DARMS (Digital Analogue Representation of Musical Symbols) developed by Bauer-Mengelberg, 45

For a list of music already prepared for such use, see "Music in Machine-Readable Form," Computers and the Humanities, Vol. 6, No. 3 (January, 1972), pp. 176-178.

⁴⁴Kostka, "Hindemith String Quartets," p. 112.

⁴⁵A brief discussion of this system is found in Pederson, "Techniques," pp. 4-15.

ALMA (Alphanumeric Language for Musical Analysis) by Gould and Logemann, 46

ANON by Jackson, 47 and CLML (Chicago Linear Music Language) by Bernstein and Olive. 48 There would not yet seem to be any best or universally accepted music encoding system. Hopefully, this time-consuming task will eventually be reduced or eliminated entirely with the development of optical readers, 49 which will be able to convert automatically the printed score to a form suitable for computer input.

With the possible exception of interval analysis, there seemed to be few analytical techniques common to most micro-analytical studies, although many of these studies showed some similarities. They most frequently used linear music as the subject for their analyses (possibly to avoid the many encoding problems associated with music which contained an indefinite number of voice parts). Repetition appeared to be the most frequent indicator of importance as far as analytical procedure was concerned. Such an indicator can be misleading if it is assumed that the frequency of occurrence of an item is the only measure of its aural significance. It appeared, however, that the practice was used for lack of a better method, in the hope that it would prove to be a valuable tool for providing the music analyst with the first fragmentary

Murray Gould and George W. Logemann, An Alphanumeric Language for Music Analysis (ALMA) (New York University Institute for Computer Research in the Humanities, 1966).

⁴⁷ Kostka, "Hindemith String Quartets," pp. 112-146.

Lawrence F. Bernstein and Joseph P. Olive, "Computers and the 16th-Century Chanson: A Pilot Project for the University of Chicago," Computers and the Humanities, Vol. 3, No. 3 (January, 1969), pp. 153-160.

⁴⁹R. S. Morgan, "Optical Readers," <u>Computers and the Humanities</u>, Vol. 3, No. 1 (September, 1968), pp. 61-62.

pieces of information needed to frame the more complex questions relating to musical style and the human listening process.

CHAPTER II

DESCRIPTION OF THE MUSIC ANALYSIS PROGRAM

Preface

It was stated earlier that the purpose of this thesis was to provide the music analyst with a computer program which would assist him in locating certain types of melodic patterns which might be present in linear musical compositions. The purpose of this chapter is to show the musician the analytical capabilities of the program. Each of the program's analyses is individually described and illustrated so that the reader will not only be able to understand the type of information it provides, but also understand its limitations as well.

The computer program was written in the FORTRAN IV language, a language which is found on nearly all of the computer installations in the United States; however, no attempt will be made to discuss the specific computer programming techniques used to achieve the different types of analytical results.

Preliminary considerations

Computers can only assist music analysts by relieving them of the burden of identifying and tabulating objectively defined musical events; they cannot be used to measure subjectively described musical relationships. The approach used for this thesis was, therefore, to

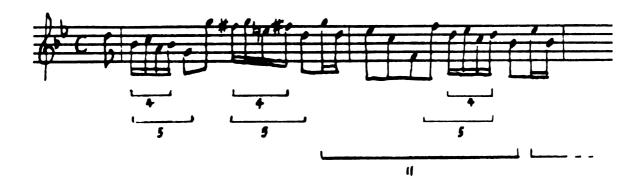
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design a computer program which was capable of identifying a variety of objectively defined melodic relationships. This was done with the assumption that the results of these analyses would be subsequently evaluated with the musical score to determine their aural and/or structural importance according to the broader and more subjective musical goals of the analyst.

Three of the research studies described earlier in this thesis employed some type of computer-assisted musical pattern analysis as part of their studies. The scope of these methods was limited because they were designed to obtain highly specific information concerning music written by either one composer, or by a closely related group of composers. It became clear that if the program to be developed for this thesis were to be used to analyze linear music by more than one composer or stylistic period, some of the limitations shown in the previous studies would have to be reduced considerably, and a number of other analytical processes would have to be developed to provide the analyst with the flexibility needed to explore a more general approach to the problem.

There were three major limitations found in the Curry, Hanson, and Kostka studies which required that alternative methods be explored. The first limitation had to do with the practice of arbitrarily establishing one fixed length of musical pattern for an entire analysis. Such a procedure was far too limited to take into account the many different ways which melodies can be aurally interpreted. The following musical excerpt has been analyzed to show some of the many different sizes of repeated melodic patterns which some analysts might believe to be aurally or structurally significant. The brackets indicate

similar pitch and rhythm content; the numbers found beneath each bracket indicate the number of notes contained within each pattern.





It can be seen that the patterns illustrated not only appear in many different sizes but sometimes overlap each other as well, and do not necessarily conform to the barline. The complexity of the pattern analysis problem, as partially reflected in this example, required that any procedure to be used for melodic analysis be able to detect patterns of many different sizes, regardless of their interaction with other patterns, or their location within the measure.

A second limitation (observed only in the Kostka study) had to do
with the practice of specifying in advance the pitch or rhythm content
of the pattern. While such a procedure may be sufficient for a highly
specific type of analysis, it might not be satisfactory for a more

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general type of analysis, because such a practice limits the thoroughness of the computer analysis to the perceptual limitations of the analyst. As a result, a considerable amount of important information might remain undiscovered. It was decided that another approach should be implemented, whereby the computer program would be designed to conduct a number of different types of musical pattern analyses from which the user could select his choice depending upon his particular analytical goal. The advantages of such an approach were two-fold in that (1) the specific musical content of the patterns would be defined by the musical composition itself, and (2) there would be less chance of overlooking other similarly constructed patterns. The disadvantage was that such a method would generate a great deal of output, some of which might be of little value to the analyst. It was decided that it would be better for the music analyst to discard unnecessary information than for him to try to define the specific musical content of the pattern and thereby limit the potential of the computer-assistance.

The third limitation observed in the previous studies had to do with the method used to report the results. The most frequently used approach was to list the total number of appearances for the particular event. By presenting the results only in such a manner, it was extremely difficult, if not impossible, for the analyst to compare specific computer-derived patterns with their occurrence in the original score for the purpose of evaluating their aural importance with respect to the surrounding musical context. It was therefore decided that it would be better to design the program so that it would list the precise musical location of each event cited in the course of the analysis.

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 In summary, it was decided, after an examination of some other studies using pattern analysis, that the analytical approach to be used for this thesis would be such that:

- the computer program would be able to detect all possible sizes of melodic pattern regardless of their location within the measure;
- 2) the precise musical content of the patterns would not be specified; instead, a number of different categories of melodic patterns would be defined from which the music analyst could select one or more analyses which would retrieve the patterns most appropriate to his needs; and
- 3) with the exception of two-note patterns, the location of nearly all melodic patterns fitting the criteria for the specified analysis would be listed to facilitate evaluation of the results.

Description of the program's different analyses

The computer program consisted of twenty-six different melodic analyses or tests; each test was designed to locate a particular type of objectively defined melodic relationship. These relationships were chosen because of their familiarity to music analysts, and also because they could be precisely defined to both the music analyst and the computer. They may be divided into three general categories: the first category (as defined in Tests 1 through 8) consisted of tests that located melodic relationships defined by pitch alone; the second category (as defined in Tests 9 and 10) was designed to locate melodic relationships defined by rhythm alone; the last category (as defined

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in Tests 11 through 26) consisted of tests that located melodic patterns containing combinations of those melodic patterns defined by the first two categories of tests. The pitch relationships selected were based upon the following familiar melodic relationships: Original (0), Inversion (I), Retrograde (R), and Retrograde-Inversion (RI). The rhythmic relationships used were (1) repetition of an original rhythmic pattern, and (2) use of rhythm retrograde.

Since these melodic relationships cannot exist alone (they can only be described with reference to some other pattern) it was necessary to list the location of the first appearance of the original pattern along with subsequent locations of the appropriate O, I, R, or RI pitch patterns or rhythmic patterns as the requirements of the analysis dictated. This reporting procedure is illustrated below:



Pattern	Notes	Related to	Notes	Test	Length
1	1 to 3		4 to 6	2	3
2	1 to 3		8 to 10	2	3
3	1 to 3		13 to 15	2	3

Program so that precise identification of melodic excerpts would be possible. Three pattern-statements are shown beneath the music example. From left to right, each statement consists of an identification number (found under "Pattern"), the beginning and ending notes of the two melodic excerpts which are related to each other, the nature of the

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relationship (found under "Test"), and the number of attack-points contained in each excerpt (found under "Length"). The program user must specify which test he wishes to use for each computer analysis; the program then supplies the rest of the information found in each pattern-statement.

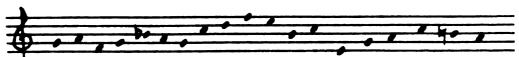
Each of the twenty-six different tests available to the program user is described individually below. Each description begins with a small music example which has been analyzed by the computer for purposes of illustration. Each example is, in turn, followed by a partial listing of some of the melodic pattern-relationships found by the computer analysis. (A complete listing of all of the patterns located for each example, as well as listings for the input data submitted for each test, is found in Appendix A.) It is suggested that the reader compare the musical score with each of the sample patterns shown so it can be seen how the pattern-relationship specified as the criterion for each test was reported by the computer program.

Tests 1 through 8 identified pitch relationships only. Since none of these tests analyzed rhythm content, no rhythm has been specified for the following music examples. (Any rhythmic information included with the input data is disregarded by the program when any of Tests 1 through 8 are specified for use.) Each of the pitch relationships is defined below:

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TEST 2 -- EXACT CONTOUR (ORIGINAL)





Pattern	Notes	Related to	Notes	Test	Length
6	3 to	6	8 to 11	2	4
7	3 to	6	15 to 18	2	4
9	3 to	7	15 to 19	2	5

TEST 4 -- EXACT INVERSION



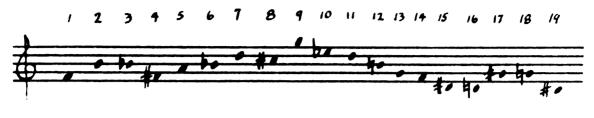
Pattern	Notes Related to	Notes	Test	Length
1	1 to 3	6 to 8	4	3
2	1 to 3	9 to 11	4	3
3	1 to 3	13 to 15	4	3
7	1 to 4	9 to 12	4	4
8	1 to 4	13 to 16	4	4
10	1 to 5	13 to 17	4	5

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TEST 6 -- EXACT RETROGRADE



Pattern	Notes	Related to	Notes	Test	Length
5	4 to 7	7	9 to 12	6	4
6	4 to 7	7	12 to 15	6	4

TEST 8 -- EXACT RETROGRADE INVERSION



Pattern	Notes	Related to	Notes	Test	Length
2	2 to	4	14 to 16	8	3
5	6 to	8	9 to 11	8	3
6	6 to	8	13 to 15	8	3
9	5 to	8	9 to 12	8	4
10	4 to	8	9 to 13	8	5

The two melodic excerpts listed in each of the pattern-statements shown above displayed the exact intervallic relationship with respect to its mate. This is a very strict approach to melodic analysis; it guarantees that only excerpts which exhibit the specific intervallic relationship with respect to each other will be listed. Because this approach cannot be used to locate similar patterns which may contain some small variant in interval size (such as might be noticed if real and tonal statements of a fugue subject are closely compared) another

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series of tests was provided which allowed for tonal modifications in the O, I, R, and RI patterns. The second set of tests (numbered 1, 3, 5, and 7) used intervallic direction as the only criteria for locating these pitch patterns. This modified approach was found to be very useful for locating and grouping similar but not necessarily intervallically identical patterns. Tests 1, 3, 5, and 7 are illustrated below:

TEST 1 -- TONAL CONTOUR (ORIGINAL)



Pattern	Notes Related to	Notes	Test	Length
1	1 to 3	5 to 7	1	3
2	1 to 3	9 to 11	1	3
3	1 to 3	12 to 14	1	3
4	1 to 3	14 to 16	1	3
8	1 to 4	9 to 12	1	4
9	1 to 4	14 to 17	1	4
13	1 to 5	9 to 13	1	5
14	8 to 12	13 to 17	1	5

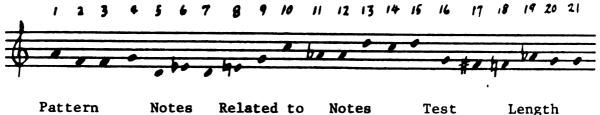
TEST 3 -- TONAL INVERSION



Pattern	Notes Rel	ated to Notes	Test	Length
2	2 to 4	9 to 11	3	3
6	2 to 5	9 to 12	3	4
10	1 to 6	8 to 13	3	6

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TEST 5 -- TONAL RETROGRADE



Pattern	Notes	Related to	Notes	Test	Length
21	2 to 6		17 to 21	5	5
28	5 to 11		14 to 20	5	7

TEST 7 -- TONAL RETROGRADE INVERSION



Pattern	Notes	Related to	Notes	Test	Length
3	3 to 5		7 to 9	7	3
6	2 to 5		7 to 10	7	4
10	1 to 6		6 to 11	7	6

Tests 1, 3, 5, and 7 defined melodic patterns in terms of pitch directions only; therefore, specific interval sizes did not need to be identical as were the cases with Tests 2, 4, 6, and 8. However,

Tests 1, 3, 5, and 7 allowed only for expansion and contraction of interval size; no further modifications of the original event could be detected by these analyses.

Tests 9 and 10 identified rhythm relationships only. Since neither of these tests analyzed pitch content, pitch has not been specified for the following musical examples. (Any pitch information included

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with the input data is disregarded by the computer program when either

Test 9 or 10 is selected for use.)

Rhythms consisting totally of one continually repeated duration were intentionally deleted from the computer output for Tests 9 and 10. The reasons for this omission are discussed later in this chapter in the section entitled "Selected pattern deletions."

Tests 9 and 10 are illustrated below:

TEST 9 -- EXACT RHYTHM

, 3	4	5 78	9 10 11	15 14	16 17 18	19 20 21	23 24 25	27 28 29 30 31	35 34 35 37 38 39 40 H
	7	丌	FI	万	丌	刀丁	刀几	D DI	万爪爪

Pattern	Notes Related to	Notes	Test	Length
1	1 to 4	5 to 8	9	3
2	1 to 4	11 to 14	9	3
73	5 to 11	15 to 21	9	6
74	5 to 11	25 to 31	9	6
103	1 to 10	11 to 20	9	8
104	1 to 10	21 to 30	9	8
171	1 to 20	21 to 40	9	16

TEST 10 -- EXACT RHYTHM RETROGRADE

1345	11 13 14 15	17 1 9	21 22	25 27	29 31	33 35 36	37 <i>39</i>	45 48
						M	DI	7

Pattern	Notes	Related to	Notes	Test	Length
1	1 to 4		13 to 15	10	3
7	5 to 14		35 to 39	10	4
8	11 to 15	(SYM)	33 to 37	10	4
11	5 to 15		33 to 39	10	5
16	5 to 19		29 to 39	10	7

Pattern 8, shown above, includes the additional designation: "SYM."

This indicates that the rhythm identified in the pattern-statement was symmetrically constructed, and therefore sounds the same whether performed forward or backward. (Such a rhythm is frequently described as a "non-retrogradable rhythm.") The computer program added this designation to all symmetrically constructed rhythms whenever retrograde rhythm was to be used for all or part of the criteria for analysis, as was the case for Test 10, and Tests 19 through 26.

The tests requiring rhythmic analysis were limited primarily because the method used to encode music data was not designed to encode irrational rhythms or other rhythmic information, such as barline placement, meter signatures, or different types of accents. The program was capable of identifying repeated rhythmic patterns (as defined by position of attack-points) in passages containing rational rhythm only.

These were necessary limitations, because expansion of the encoding process to allow encoding of most irrational rhythms and other data

associated with rhythm notation, would have been an enormous task, and was beyond the scope of this study. In addition, there was little or no specific information about the effect of barline placement, meter signatures, or rhythmic accents upon our perception of rhythm.

Consequently, there was no basis upon which to incorporate the effect of these variables into the study.

The remaining tests found in the program were designed so that it would be possible to locate melodic patterns which contained combinations of rhythm relationships shown in Tests 9 and 10, and pitch relationships shown in Tests 1 through 8. These tests are illustrated below in the same manner as has been done previously:

TEST 11 -- EXACT RHYTHM WITH TONAL CONTOUR (ORIGINAL)



Pattern	Notes	Related to	Notes	Test	Length
1	1 to 4	4	7 to 10	11	3
2	1 to	4	19 to 22	11	3
3	3 to 5	5	9 to 11	11	3
4	3 to 5	5 2	21 to 23	11	3
9	1 to 5	5	7 to 11	11	4
10	1 to 5	5 1	l9 to 23	11	4

TEST 12 -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL)



Pattern	Notes	Related to	Notes	Test	Length
1	1 to 4		19 to 22	12	3
2	3 to 5	5	21 to 23	12	3
3	1 to 5	5	19 to 23	12	4

TEST 13 -- EXACT RHYTHM WITH TONAL INVERSION



Pattern	Notes Related to	Notes	Test	Length
1	1 to 4	7 to 10	13	3
2	1 to 4	19 to 22	13	3
3	3 to 5	9 to 11	13	3
4	3 to 5	21 to 23	13	3
6	1 to 5	7 to 11	13	4
7	1 to 5	19 to 23	13	4

TEST 14 -- EXACT RHYTHM WITH EXACT INVERSION



Pattern	Notes	Related to	Notes	Test	Length
1	1 to 4	•	7 to 10	14	3
2	3 to 5		9 to 11	14	3
4	1 to 5	•	7 to 11	14	4

TEST 15 -- EXACT RHYTHM WITH TONAL RETROGRADE



Pattern	Notes	Related to	Notes	Test	Length
5	1 to 7	7	9 to 15	15	5
6	1 to 7	7	17 to 23	15	5

TEST 16 -- EXACT RHYTHM WITH EXACT RETROGRADE



Pattern	Notes	Related to	Notes	Test	Length
4	1 to 7	7	17 to 23	16	5

TEST 17 -- EXACT RHYTHM WITH TONAL RETROGRADE INVERSION



Pattern	Notes	Related to	Notes	Test	Length
4	1 to 7	7	9 to 15	17	5
5	1 to 7	7	25 to 31	17	5

TEST 18 -- EXACT RHYTHM WITH EXACT RETROGRADE INVERSION



Pattern	Notes	Related to	Notes	Test	Length
1	3 to 5		11 to 13	18	3
3	1 to 7		9 to 15	18	5

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TEST 19 -- EXACT RHYTHM RETROGRADE WITH TONAL CONTOUR (ORIGINAL)

7 9 10 11 13 15 16 17 23 25 26 27 29 31 32 33 34 35 37 3940 41 43 49 50 51 53 55 56 57 59



Pattern	Notes Related to	Notes	Test	Length
1	7 to 11 (SYM)	23 to 27	19	4
11	1 to 16	33 to 43	19	8
12	1 to 16	49 to 59	19	8
18	1 to 32	33 to 59	19	16

TEST 20 -- EXACT RHYTHM RETROGRADE WITH EXACT CONTOUR (ORIGINAL)

1 7 9 10 11 13 15 16 17 23 25 26 27 29 31 32 33 34 35 37 3940 41 43 49 50 51 53 55 57 59



Pattern	Notes Related to	Notes	Test	Length
1	9 to 13	35 to 40	20	4
3	1 to 16	33 to 43	20	8

TEST 21 -- EXACT RHYTHM RETROGRADE WITH TONAL INVERSION

4 5 7 8 7 10 11 13 15 16 17 18 9 21 22 25 27 28 29 31 32 35 36 37 39 40 41 92 43 45 46



Pattern	Notes	Related to	Notes	Test	Length
1	4 to 7		18 to 21	21	3
2	4 to 7		42 to 45	21	3
8	1 to 11		13 to 22	21	8
9	1 to 11		37 to 46	21	8

TEST 22 -- EXACT RHYTHM RETROGRADE WITH EXACT INVERSION

4 5 " B 7 10 11 13 15 16 17 18 19 21 21 21 21 21 31 32 33 36 37 39 40 41 92 43 45 46

Pattern	Notes	Related to	Notes	Test	Length
4	1 to 11		37 to 46	22	8

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TEST 23 -- EXACT RHYTHM RETROGRADE WITH TONAL RETROGRADE

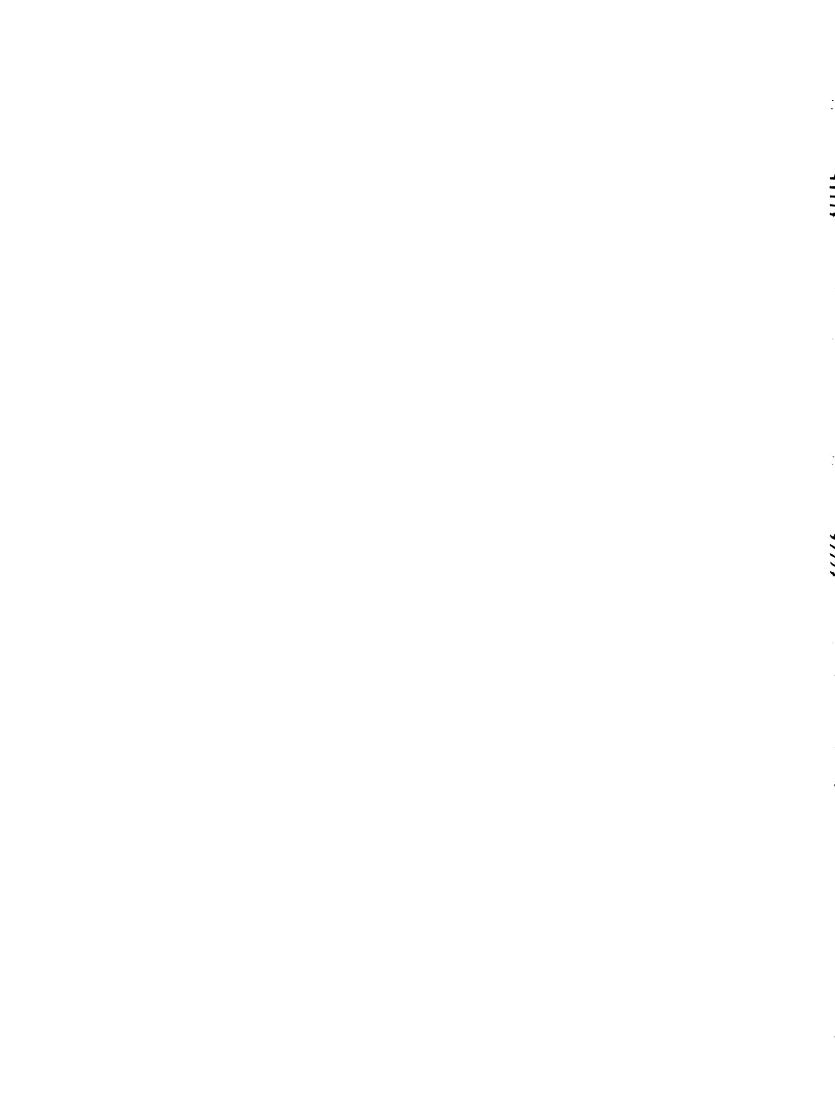


Pattern	Notes Related to	Notes	Test	Length
19	1 to 6 (SYM)	19 to 24	23	5
20	1 to 6 (SYM)	43 to 48	23	5
37	1 to 12	13 to 24	23	8
38	l to 12	37 to 48	23	8

TEST 24 -- EXACT RHYTHM RETROGRADE WITH EXACT RETROGRADE



Pattern	Notes Related to	Notes	Test	Length
18	1 to 7	41 to 48	24	6
23	1 to 12	37 to 48	24	8



TEST 25 -- EXACT RHYTHM RETROGRADE WITH TONAL RETROGRADE INVERSION



Pattern	Notes Related to	Notes	Test	Length
45	1 to 11	13 to 22	25	8
46	1 to 11	37 to 46	25	8

TEST 26 -- EXACT RHYTHM RETROGRADE WITH EXACT RETROGRADE INVERSION



Pattem	Notes	Related to	Notes	Test	Length
26	1 to 11	L	37 to 46	26	8

The examples shown above were written specifically for the purpose of illustration. In many cases, only a few of the musical patterns located by the computer analyses were listed in this chapter.

An examination of the complete listings (as found in Appendix A)

will show that some of the analyses located many patterns which fit

the requirements of the specified test, but seemed to show relatively

little motivic importance. These patterns could not be automatically

eliminated from the computer output because it would have been extremely

difficult to invent any practical criteria which would have distinguished

without fail between relatively important melodic motives and relatively unimportant melodic motives. In fact, the development and adoption of such procedures was never contemplated, not only for this reason, but because such methods could seriously impair the effectiveness of the analysis program by excluding patterns which other analysts might consider musically important. Such a procedure would also have prohibited use of the program with music of different stylistic periods. However, the results of thorough testing of the program did reveal three very limited and specific types of melodic occurrence which caused the program to list relationships which were either too ambiguous with respect to some of the other available tests, or too obvious, to justify their inclusion as part of the pattern lists. A detailed discussion of each of these situations as well as the procedures subsequently adopted to eliminate these undesirable parterns is found in the section titled "Selected pattern deletions."

As has been previously shown, the computer program normally listed the resulting patterns in order of increasing pattern length. This arrangement of patterns has been designated as a "Type-I Listing."

hnother arrangement of selected patterns was also created to isolate smaller patterns (or subpatterns) which were found within the lengthiest patterns. This form of output (designated as a "Type-II Listing.") presented individually each of the lengthiest patterns followed by the most frequently occurring subpatterns contained within them. Such a listing was found to be particularly valuable for analyzing music which contained lengthy patterns. The following example of such a list resulted from an analysis of the excerpt used previously to illustrate Test 9:

1 3 4 5 78 9 10 11 13 14 16 17 18 19 20 21 23 24 25 27 28 28 30 31 35 37 38 39 40 41

		ATION OF OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF PATTERN
ORIGINAL PATTERN	NOTES	1 TO 21	2	17
SUBPATTERN SUBPATTERN SUBPATTERN	NOTES NOTES	1 TO 11 5 TO 11 1 TO 5	4 4 4	9 6 4

 $^{^{7}h_e}$ complete list may be found with Test 9 in Appendix A.

The Type-II listing is much more limited in the type of information it provides than is the Type-I listing. The purpose of the Type-I listing is to provide the user with a relatively complete listing of the Pattern relationships which fit the given criteria for the specified test. The purpose of the Type-II listing is to provide an analysis of the lengthiest pattern (or patterns) found in the Type-I listing by showing those subpatterns which appear relatively frequently within the large Pattern. The Type-II listing was an experimental attempt to delete infrequently appearing subpatterns on the premise that some significant smaller patterns were found more frequently than other less frequently appearing subpatterns. Obviously such a premise cannot apply to all musical compositions and may not be acceptable to some music analysts. However, the list was provided as an experimental tool which, it is hoped, will indicate in a clearer manner some of the more prevalent subpatterns

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present in linear music. The content of the Type-II listing varied considerably depending upon the content of the Type-I listing which preceded it.

In addition to pattern analysis, the program was designed to provide information concerning melodic interval usage. This information was presented immediately prior to each pattern analysis. For example, the interval analysis for the following example:



would appear as follows:

ASCENDING AND DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2	3	15.0
MAJOR 2	2	10.0
MINOR 3	2	10.0
MAJOR 3	0	0.0
PERF. 4	1	5.0
TRITONE	2	10.0
PERF. 5	0	0.0
MINOR 6	2	10.0
MAJOR 6	1	5.0
MINOR 7	2	10.0
MAJOR 7	1	5.0
OCTAVE	1	5.0
MINOR 9	0	0.0
MAJOR 9	0	0.0
MINOR 10	1	5.0
MAJOR 10	1	5.0
PERF. 11	0	0.0
COMP. TT	0	0.0
PERF. 12	0	0.0
MINOR 13	0	0.0
MAJOR 13	0	0.0
MINOR 14	0	0.0
MAJOR 14	0	0.0
TWO OCT.	0	0.0
UNISON	1	5.0
INTERVALS	0	0.0
EXCEEDING		
TWO OCTAVES	5	

20 INTERVALS COUNTED

This table also contains unisons.

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2	1	10.0
MAJOR 2	1	10.0
MINOR 3	2	20.0
MAJOR 3	0	0.0
PERF. 4	1	10.0
TRITONE	1	10.0
PERF. 5	0	0.0
MINOR 6	1	10.0
MAJOR 6	1	10.0
MINOR 7	0	0.0
MAJOR 7	1	10.0
OCTAVE	0	0.0
MINOR 9	0	0.0
MAJOR 9	0	0.0
MINOR 10	0	0.0
MAJOR 10	1	10.0
PERF. 11	0	0.0
COMP. TT	0	0.0
PERF. 12	0	0.0
MINOR 13	0	0.0
MAJOR 13	0	0.0
MINOR 14	0	0.0
MAJOR 14	0	0.0
TWO OCT.	0	0.0
INTERVALS	0	0.0
EXCEEDING	TWO	
OCTAVES		

10 ASCENDING INTERVALS COUNTED

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 OCTAVE MINOR 9 MAJOR 10 MAJOR 10 MAJOR 10 PERF. 11 COMP. TT PERF. 12 MINOR 13 MAJOR 13 MAJOR 14 MAJOR 14 TWO OCT.	2 1 0 0 0 1 0 1 0 2 0 1 0 0 0 1 0 0 0 0	22.2 11.1 0.0 0.0 0.0 11.1 0.0 11.1 0.0 22.2 0.0 11.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
INTERVALS EXCEEDING OCTAVES	0 0 TWO	0.0 0.0

⁹ DESCENDING INTERVALS COUNTED.

The type of interval analysis shown above automatically appeared with any use of Tests 1 through 26. However, the analyst could use the interval analysis portion of the program alone (without any further pattern analysis) by requesting that Test 0 be conducted.

The purpose of this section of the thesis has been to describe and illustrate the different types of analytical information which may be obtained from the music analysis program. The program is capable of locating twenty-six different types of melodic relationship as well as information concerning melodic interval usage. These relationships are generally defined according to pitch content alone, rhythmic content alone, or a combination of both pitch and rhythmic relationships. The program user selects the appropriate relationship according to his own analytical goals and then indicates his choice by submitting the appropriate test number with the computer input data. The different types of melodic relationships and their individual test numbers are summarized below:

```
Test 0 -- Interval analysis only
Test 1 -- Tonal contour (original)
Test 2 -- Exact contour (original)
Test 3 -- Tonal inversion
Test 4 -- Exact inversion
Test 5 -- Tonal retrograde
 Test 6 -- Exact retrograde
 Test 7 -- Tonal retrograde inversion
 Test 8 -- Exact retrograde inversion
 Test 9 -- Exact rhythm
 Test 10 -- Exact rhythm retrograde
 Test 11 -- Exact rhythm with tonal contour (original)
 Test 12 -- Exact rhythm with exact contour (original)
 Test 13 -- Exact rhythm with tonal inversion
 Test 14 -- Exact rhythm with exact inversion
 Test 15 -- Exact rhythm with tonal retrograde
Test 16 -- Exact rhythm with exact retrograde
```

```
Test 17 -- Exact rhythm with tonal retrograde inversion

Test 18 -- Exact rhythm with exact retrograde inversion

Test 19 -- Exact rhythm retrograde with tonal contour (original)

Test 20 -- Exact rhythm retrograde with exact contour (original)

Test 21 -- Exact rhythm retrograde with tonal inversion

Test 22 -- Exact rhythm retrograde with exact inversion

Test 23 -- Exact rhythm retrograde with tonal retrograde

Test 24 -- Exact rhythm retrograde with exact retrograde

Test 25 -- Exact rhythm retrograde with tonal retrograde inversion

Test 26 -- Exact rhythm retrograde with exact retrograde inversion
```

The format used to report pattern relationships has been illustrated and remains the same for each of the available analyses. Two different types of pattern listings were provided with each pattern analysis.

The number of patterns listed varied depending upon the amount of data submitted and the particular test specified. Type-I listings displayed all of the patterns found for the analysis specified, while Type-II listings displayed each of the largest patterns with their respective subpatterns which occurred more than two times within each statement of the larger pattern. Suggestions for interpretation and use of the computer results are found in the next chapter of the thesis.

Selected pattern deletions

The computer program was originally designed to list all of the patterns located by the various tests; however, experimentation with the original program revealed that there were three particular types of melodic construction which caused it to list patterns which were technically accurate but either redundant, or ambiguous, with respect to other analyses available within this program. Because it was possible to define and exclude these undesirable pattern-statements, the program was subsequently modified so that such statements would not appear in the lightness.

The three types of melodic constructions which caused these unnecessary patterns to be listed were:

- 1) extended reiteration of pitches;
- 2) melodic contours exhibiting no change-of-direction; and
- 3) ambiguous rhythmic figures.

Each of these melodic occurrences is described below. Examples of the types of pattern which were subsequently deleted from the computer analyses are also shown.

Extended reiteration of pitches. A melodic line containing an extended series of notes which alternated between two pitches would normally cause the program to include the following patterns (or similar types) to be listed as part of the output:

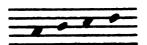


All of the patterns shown above are accurate, but they add little useful information to the analysis because they are redundant; i.e., they reflect the inner workings of a reiterated figure. To eliminate these pattern-statements, the program was altered so that those patterns which consisted entirely of an extended reiteration of pitches (i.e., longer than four notes) were not listed regardless of any accompanying rhythm. Pattern-statements caused by extended reiteration of any other interval, such as



were also deleted from the computer output.

Melodic contours exhibiting no change-of-direction. Redundant pattern-statements also resulted when the data included a melodic contour which exhibited no change-of-direction. For example, any continually rising melodic contour, such as



would normally cause the program to indicate that the example showed the following relationships with respect to each of the following contours:

l) original contour	
2) inverted contour	
3) retrograded contour	
4) retrograded and	

After considerable use of the program, it was decided that the first and second type of pattern statements were too obvious to add significantly to their respective analyses. It was also determined that the third and fourth types of pattern statement were also of little value because they were indistinguishable from the contours identified in the second and first examples, respectively. Because of these characteristics, Pattern-statements reflecting such relationships were not listed with tests which analyzed contour as part or all of their criteria for analysis, regardless of accompanying rhythm. Those tests affected were numbers 1, 3, 5, 7, 11, 13, 15, 17, 19, 21, 23, and 25.

Ambiguous rhythmic figures. Rhythmic figures in which the adjacent attack-points were equidistant from adjacent attack-points (such as would be caused by a succession of notes of the same duration) would

normally caus undesirable pattern-statements to be listed, as can be seen in the following example:



Pattern	Notes	Related to	Notes	Test	Length
1	3 to 5		5 to 7	9	3
2	3 to 5		6 to 8	9	3
3	3 to 5		7 to 9	9	3
		(etc.)			
7	3 to 6	-	6 to 9	9	4
8	3 to 6		7 to 10	9	4
9	3 to 6		8 to 11	9	4
		(etc.)			
29	5 to 11		11 to 17	9	7

Since the rhythms indicated by these statements have no identifying change-of-duration contained within them, they add little to the analysis of rhythm. For this reason, listings of this type were deleted from Tests 9 and 10 (where rhythm was the only criterion for identification).

The general type of statement described above was permanently deleted from the computer output only after a thorough testing of the program whowed that such a practice did not otherwise limit the completeness of the computer analyses nor prohibit use of the program with music of different stylistic periods.

Table 1 summarizes when the three types of undesirable statement are deleted from the different pattern analyses. A description of the types of pattern deleted from any analysis is

also printed on the computer output to remind the user which types of patterns were intentionally being deleted.

TABLE I
PATTERN DELETIONS IN EFFECT

Test	Extended Reiteration of Pitches	Contours Lacking Change-of-Direction	Ambiguous Rhythmic Figures ^b
1	x	х	
2	X		
3	X	X	
4	X		
5	X	X	
6	X		
7	X	X	
8	X		
9			X
10	X		X
11	X	X	
12	X		
13	X	X	
14	X		
15	X	X	
16	X		
17	X	X	
18	X		
19	X	X	
20	X		
21	X	X	
22	X		
23	x	X	
24	x		
25	X	X	
26	x		

a Regardless of rhythm content.

Regardless of pitch content.

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CHAPTER III

SUGGESTIONS FOR INTERPRETATION OF THE COMPUTER OUTPUT

Introduction

The purpose of this chapter is to demonstrate how the music pattern analysis program was used to locate structurally related melodic patterns in the following three musical compositions: Density 21.5 by Edgard Varèse, "Fuga nona in B-flat" from Ludis Tonalis by Paul Hindemith, and the isorhythmic motet Veni Sancte Spiritus by John Dunstable. Each composition was encoded in its entirety, keypunched onto data cards, and then processed a number of times using various pattern analyses developed for this thesis. The specific analyses selected for use with each composition were chosen because they seemed appropriate to the style of the composition.

A description of the different types of computer output generated from these analyses is presented in this chapter along with suggestions for the most effective use of these materials.

Density 21.5 was chosen as the primary example to illustrate the use of the different types of computer output. It was chosen for analysis

The work was composed for solo flute by Edgard Varèse, the contemporary French composer who died in 1965. A brief note on the first page of the score states that the work was written in January 1936 at the request of Georges Barriere for the inauguration of his platinum flute. 21.5 is the density of platinum.

editik kizi 2122H nami lan . San die e . The late 212010 SERENCE. - THERE THE PLANT Size age. g-38.5 0.5 3-43:E.78 124: ear and Service 12 to 12 La tra `*:_{*:}; ³883; ₩ `**: 校社会 4. ¥p. A CONTRACTOR because the style seemed typical of much twentieth-century instrumental composition, in that it exhibited a wider range and a greater use of non-vocal melodic leaps than is characteristic of more vocally-oriented music. The work also demonstrated these characteristics while retaining fairly traditional notational methods. Further, the melodic patterns contained in the work were probably not so familier to most music analysts as were melodic patterns found in music chronologically closer to the common-practice period; therefore, computer-assistance in identifying structurally similar melodic patterns seemed appropriate for this work. Other reasons why the work was chosen were that it was entirely linear in construction, and that it was small enough to be used for illustrative purposes.

Tests 1 through 26 produced four types of printed output. These were:

- a complete listing of the input data along with reference numbers which were assigned by the computer program to each pitch for purposes of pattern identification;
- 2) melodic interval tables;
- 3) Type-I pattern listings (where all patterns of the type requested were listed in order of increasing length); and
- 4) Type-II pattern listings (where the longest patterns were analyzed to reveal frequently-appearing subpatterns).

The computer output for Test O consisted of only the first two types of output described above; the remaining tests consisted of all four types of output.

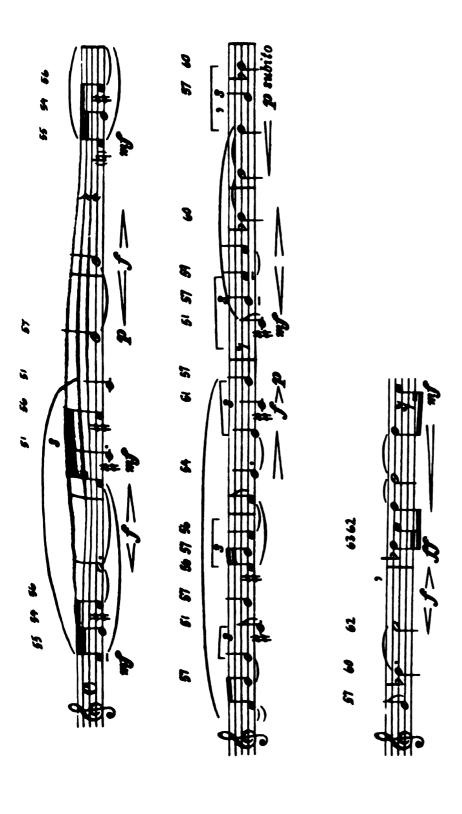
List of input data and computer-assigned reference numbers

Measures 1 through 8 of <u>Density 21.5</u> are shown in Figure 1 with the numeric pitch representations written above each note-head.²

This figure also shows how the numeric representations were consecutively punched on data cards, and the manner which the program listed these data and their respective sequence numbers:

This and all other excerpts of <u>Density 21.5</u> reproduced courtesy of Colfranc Music Publishing Corp., copyright owners. The trill in measure 20 was encoded as if performed in the following manner:

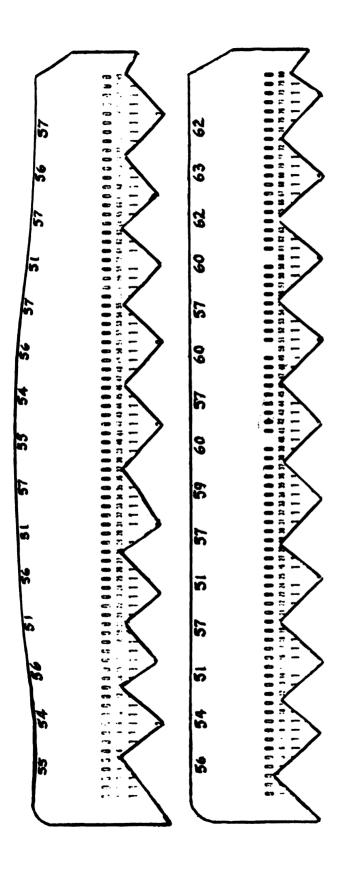




Courtesy of Colfranc Music Publishing Corp., copyright owners.

An excerpt from Density 21.5 by Edgard Varese with pitch representation numbers shown, followed by those same numbers placed on punched cards, in turn, followed by computer reference number assignment for the same data. Figure 1.

		7



COMPUTER REFERENCE MUMBER ASSIGNMENT

	23	62
	9	63
	23	62
	15	90
	L 3	2.5
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· - -	62 64 56 61 56 51 67 69 54 56 67 51 57 56 57	NC 1:5 16 THP 0UGH 3

Figure 1, continued.

measure was assigned the number "56" for purposes of identification.

All of the music examples shown in this chapter have the computerassigned reference numbers above the affected note-heads, so that the reader will be able to compare more quickly the computer output with these examples. These numeric designations remain the same for any data deck regardless of the test to be conducted.

Melodic interval tables

There were three types of interval tables provided; ascending and descending intervals (with unisons included), ascending intervals alone, and descending intervals alone. Each table listed the frequency of occurrence for interval sizes from the unison or minor second through two octaves, and listed the percentage of occurrence for each interval size with respect to other intervals listed upon the same table. These tables provided a basic source of information about a composer's use of melodic intervals and can be useful when comparing styles of different works by the same composer, or when comparing works by different composers. The interval tables for the Varèse, Dunstable, and Hindemith works analyzed may be found in Appendix B beginning on pages 204, 479, and 587, respectively.

During this phase of the program, each data card is also checked for simple keypunch errors. If any errors are found, appropriate error messages are written and the computer run is terminated. Further details concerning the encoding system used for this program may be found in Appendix C, beginning on page 743.

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Server Brief

Sec. 2

Type-I and Type-II pattern listings

The Type-I pattern listings appeared immediately following the melodic interval tables on the computer output. "Type-I" is used here as a collective designation for a series of smaller lists which organize and present the individual pattern statements according to their length. An examination of any of the Type-I listings found in Appendix B shows that the first of the smaller lists contains three note patterns and that each subsequent list contains patterns of one note greater length than the preceding list. The program will produce as many lists as needed until no lengthier patterns are located. The individual statements contained on these lists have been illustrated in the previous chapter; each statement consists of the exact location of two specific melodic excerpts which are related in the manner defined by the given computer test.

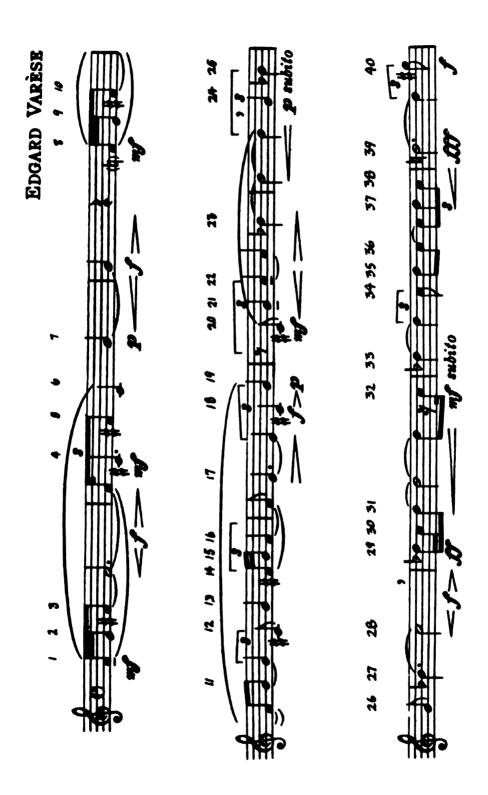
would be unrealistic to expect an analyst to compare each pattern listed with the score in the hope that he might uncover a melodically significant event. A more practical approach might be for the analyst to conduct his analysis by first transferring the computer-assigned reference numbers to the score (as has been done for these examples), and then use the musical score as the primary object of study. The computer output could then be used as reference material which would help the analyst confirm or reject any ideas or suspicions he might have concerning the melodic style of the work under study.

An extended excerpt from Varese's Density 21.5 is found in Figure 2.

(The complete work may be found in Appendix B.)

DENSITY 21.5

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Courtesy of Colfranc Music Publishing Corp., copyright owners.

Figure 2. An excerpt from Density 21.5 by Edgard Varese with computer-assigned reference numbers

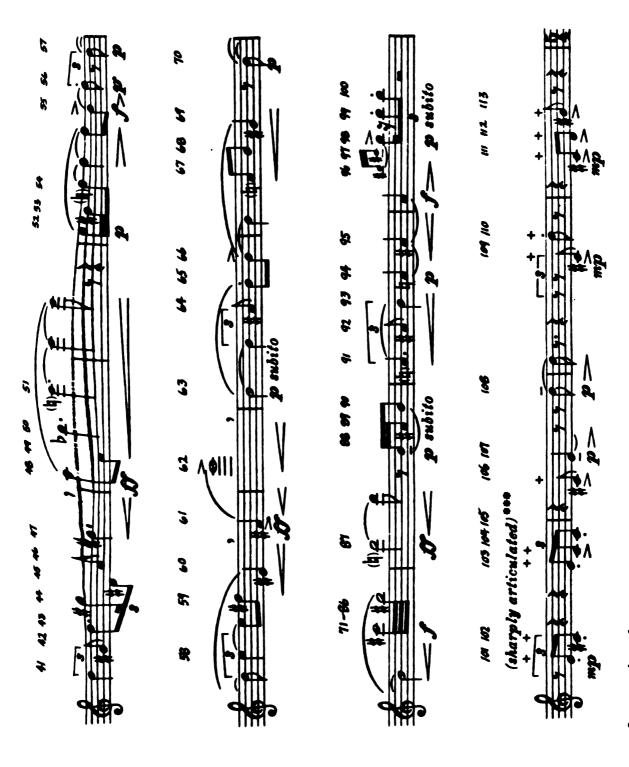


Figure 2, continued.

Using this example for reference, consider the following examples of how the computer results might be used:

EXAMPLE 1: If, after conducting a Test-2 analysis of <u>Density</u>, the analyst examines the score and decides that the following intervallic pattern (or enharmonic equivalent):



this pattern in the Type-I listing to determine if other statements of the pattern were located, and if so, where. This is done by first determining the length of the pattern—in this case, the pattern consists of three notes—and then looking for the pattern in that portion of the list which contains events of that length. If the pattern was located in an intervallically exact form in some other part of the work, each of the locations will be listed. The following excerpt from the Test-2 analysis shows that there were three intervallically—exact duplicates of the original pattern, of which the first two may be seen in Figure 2:

Pattern	Notes R	elated to Notes	Test	Length
13	9 to 11	21 to 23	2	3
14	9 to 11	27 to 29	2	3
15	9 to 11	241 to 243	2	3

See Appendix B, p. 254.

EXAMPLE 2: If the analyst wishes to locate the pitch pattern:



elsewhere in the composition, an examination of the same listing shows

no other statement beginning with that specific location; however, the

following cross-reference does appear⁵:

*** For 93 to 95 see 56 to 58 above ***

This statement informs the user that the identical intervallic pattern was located earlier in the composition and that he should look up the pattern beginning with notes 56 to 58 for subsequent statements of the pattern 6:

Pattern	Notes	Related to	Notes	Test	Length
87	56 to	58	90 to 92	2	3
88	56 to	58	93 to 95	2	3
89	56 to	58	179 to 181	2	3
80	56 to	58	192 to 194	2	3

This example illustrates how cross-referencing of patterns is indicated.

Cross-referencing of patterns is provided for patterns of three-, four-,
five-, and six-note patterns.

⁵Appendix B, p. 257.

⁶Appendix B, p. 256.

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EXAMPLE 3: If the user wishes to locate the intervallic pattern found from notes 48 through 51:



elsewhere in the composition, an examination of four-note patterns shows no reference or cross-reference to this pattern. This means that no repetition of the pattern was located.

Each of the previous examples used the Test-2 analysis for reference. Other analyses may be used in the same manner, as the following examples illustrate:

EXAMPLE 4: Tests 1, 3, 5, and 7 use melodic contour as the criterion for Pattern identification. If the analyst wishes to locate the
inverted contour of the following melodic fragment, he can do so by
examinin the output for the Test-3 analysis. It indicates 7:



*** For 44 to 47, see 8 to 11 above ***

⁷Appendix B, p. 287.

Notes 8 through 11 have the same contour (one descending interval followed by two ascending intervals) as shown in notes 44 through 47. The inversion of this contour is shown in those patterns beginning at 337, the first five of which may be seen in Figure 28:

Pattern	Notes Related to	Notes	Test	Length
337	8 to 11	14 to 17	3	4
338	8 to 11	39 to 42	3	4
339	8 to 11	50 to 53	3	4
340	8 to 11	61 to 64	3	4
341	8 to 11	86 to 89	3	4

EXAMPLE 5: To locate an exact retrograde of the following pitches:



the analyst would look at the portion of the Test-6 analysis which shows three-note patterns. It indicates the following retrogrades of this pattern9:

Pattern	Notes	Related to	Notes	Test	Length
99	111 to :	113	226 to 228	6	3
100	111 to :	113	229 to 231	6	3
101	111 to :	113	232 to 234	6	3

These musical events (not shown in Figure 2) are:

Appendix B, p. 286.

Appendix B, p. 385.

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Retrograde was not used extensively in the Varese work. There were a few instances where the program located lengthier retrogrades; however, in those instances, Varese was employing repetitive symmetrical formations such as can be seen in measures 32 through 34:



These figures and some other reiterated figures, such as those seen in measured 9 and 10 (shown in Figure 2), caused the program to designate these instances as retrograde.

It was suggested earlier that the user examine the lengthiest patterns located by the computer analysis to see whether they might be significant. The lengthiest pattern found for the Test-2 analysis of the Varese work was 10:

Pattern	Notes	Related to	Notes	Test	Length
241	28 to 2	9	76 to 87	2	12

Appendix B, p. 370.

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These two fragments are shown below; they both consist of reiterations of a minor second interval, terminated by an ascending major second.



The Type-II pattern listing was designed to provide additional information about the largest patterns by listing some of the frequently occurring subpatterns contained within them. For this listing, each one of the largest patterns was successively designated as an original pattern. The location of the first statement of the first pattern was printed, along with its length, and the number of times it appeared. Beneath this pattern was a list of the first locations of each subpattern which was found more than three times within the location of the original pattern shown above it. Along with these locations were the total number of appearances of the subpatterns (including all other statements of the subpattern within the excerpt), and the length of the subpatterns. If any subpattern did not appear at least three or more times within the original pattern, it was not printed. After all qualifying subpatterns had been printed, the next of the largest patterns Was printed along with its subpatterns. The procedure was repeated until all of the lengthiest patterns were processed.

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For the Type-II listings, only the first location of each pattern and subpattern was printed. If he desires, the user may find the locations of subsequent statements by referring to the Type-I listing for the same analysis. The Type-II listing was not intended to uncover any new patterns; it consists of a rearrangement of the previously discovered Type-I patterns in order to show frequently appearing subpatterns. For the large Varese pattern cited above, the Type-II listing did not reveal any significant subpatterns, perhaps because the large pattern consisted mostly of an extended reiteration of pitches.

Limitations on the thoroughness of the pattern analyses 11

There were two limitations on the thoroughness of the pattern analyses. The first limitation was that cross-referencing of patterns was only available for patterns having less than seven notes. This limitation was necessarily adopted to make the pattern analysis reasonably cost-efficient; further cross-referencing would have driven the cost of using the program higher than the amount of additional information would justify.

The second limitation arose from the fact that the musical location listed on the right-hand side of each pattern-statement always appeared after the musical location given on the left-hand side of the statement, such as:

Because these limitations can best be understood after the reader 100 seen the suggestions on how the program might best be used, they 100 been placed here rather than at the end of the previous chapter.

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"PATTERN 1, NOTES 25 TO 31 RELATED TO NOTES 46 TO 50"

It was not possible for the program to locate patterns occurring before the location stated on the left-hand side of a pattern-statement, such as:

"PATTERN 1, NOTES 25 TO 31 RELATED TO NOTES 7 TO 14"

The reason for this was that the program only analyzed the data from the end of the left-hand location (note 31 in the example shown above) to the end of the data deck.

For some of the most useful tests, such as 1, 2, 9, 11, and 12, this was not a serious limitation, because both locations in any statement were always identical in content, and the left-hand location was always the first appearance of the stated melodic pattern; but for other tests where the right-hand location was a variant of the lefthand location (such as inversion, retrograde, or retrograde-inversion), there could be a significant number of variants found before the original pattern. In other words, a melodic variant would not be detected if it appeared before the original location indicated on the left-hand side of the pattern statement. The impact of this limitation varied depending upon where in the data deck the original event was found. If a one-hundred-measure excerpt was analyzed and the first 1 ocation of a desired pattern was found in measure five, then only appropriate variants found in measured six through one hundred would be identified, but variants present in measures one through four would t be listed. The loss of information for such an instance would be However, if the first location of the same pattern was found

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in measure fifty, the loss of information might be considerable, because variants present in measures one through forty-nine could not be identified.

This potential loss of information was found to be substantially reduced by the user if he rearranged the data deck, so that the melodic materials of most interest to him appeared near the beginning of the data deck. For example, if the user wished to check an excerpt for variants of original material found in measures fifty through fifty-five, he could do so by rearranging the data deck, so that measures fifty through one hundred appeared at the beginning of the data deck followed by measures one through forty-nine. While such an arrangement of musical information may seem inconsistent with methods used in traditional analysis, it nearly eliminates the loss of information when used with this computer program.

This practice of rearranging the data deck when necessary also considerably reduced the other limitation related to cross-referencing. Obviously, if the most interesting original patterns were placed near the beginning of the data deck, the need for cross-referencing to earlier pattern-statements would be reduced.

In summary, there were two limitations on the thoroughness of the pattern analysis. The first limitation was the availability of cross-reference statements for patterns of less than seven notes only; the second limitation was the incapability of the program to locate variants of a melodic pattern which were present in the data deck before the

Neither of these limitations was found to affect seriously the rn^{σ} roughness of the pattern analysis if the analyst rearranged his data

... . (when necessary) so that the melodic material most interesting to him appeared near the beginning of the data deck.

Analysis of the Dunstable and Hindemith examples

The music of Dunstable and Hindemith was chosen to show how the computer program was used to provide information about compositions written in two other musical styles. These particular examples were chosen because they contained patterns of extended length which made them ideal for demonstrating the more sophisticated pattern analyses available with the program.

The procedure for encoding a polyphonic composition was nearly the same as that used for encoding the monophonic Varese work. Each voice was encoded separately and then submitted in succession as one data deck. The program then analyzed this succession of voices as if it were one extended monophonic excerpt. The program only identified patterns contained within a given melodic line; it could not identify patterns occurring vertically between voices of a contrapuntal composition.

For the Dunstable example, all of the voice-parts were included for the pattern-analysis; while for the Hindemith example, only the bottom-sounding voice-part was analyzed for melodic patterns. All of the relationships listed by the program were identified without any prior analysis by the program user.

Selected results from each analysis are presented as they were

From with the Varese analyses. The complete results for each analysis

From with the Varese analyses. The complete musical score for each shown in Appendix B along with the complete musical score for each except. Computer-assigned reference numbers have been copied to these

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scores, so that the reader may examine any of the patterns shown in the appendix.

Some of the results from these analyses are presented below.

Selected results from analyses of Dunstable's isorhythmic motet,

Veni Sancte Spiritus. The motet was written in three voices. Since

the shortest duration used in the work was the sixteenth-note, this

duration was adopted as the unit value for encoding purposes. The work

was encoded, so that one measure of a voice-part would appear on a

data card. Therefore, those passages written in 3/4 time were encoded

so that a total of twelve sixteenth-durations appeared on each card,

hile passages written in 2/4 time were encoded so that a total of eight

sixteenth-durations appeared on each card.

The interval analysis tables which preceded each pattern analysis 12 showed that the major second was the most frequently used melodic interval, followed (in descending order of frequency) by the minor second, minor third, perfect fourth, unison, major third, perfect fifth, and octave. Tritones, sixths, and sevenths were never used as melodic intervals in any voice. The tables which listed the intervals separately according to their direction did not reveal many associations of particular intervals with any specific direction. They did show,

The purpose of the Test-5 analysis was to locate melodic fragments which contained identical retrograde contours (in other words, a retrograde of the directional contour of the melody). One thousand

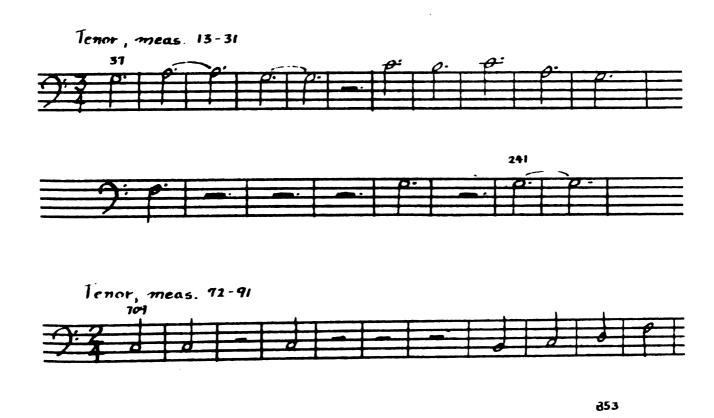
¹² Appendix B, pp. 479-481.

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four hundred thirty-nine instances of this relationship were found in the Dunstable motet consisting of patterns from three to eleven notes.

The lengthiest example of this relationship appeared in the isorhythmic tenor 13:

Pattern	Notes	Related	to	Notes	Test	Length
1439	37 to 24	41	70	09 to 853	5	11



The passages shown above were related to each other by their tonal retrograde contour. This example also illustrates a situation, where the melodic contour was more useful as a criterion for pattern the more precise intervallic

Appendix B, p. 533.

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retrograde relationship which is used as the criterion for Test 6. Had this same passage been analyzed using Test 6, only that portion of the passages containing the exact retrograde intervals (measures 13-28 and 80-91, respectively) would have been reported.

The Test-5 analysis used pitch direction as the criterion for pattern identification only; it did not measure the rhythmic content of the motet. However, the example shown above can be used to illustrate a limitation of those tests which locate rhythmic patterns. Had the analyst used the program to locate the retrograde isorhythm which can be seen in the latter passage, the program would not have detected it. The reason for this is that the retrograde isorhythm was presented using a different time signature; consequently, the durations were not exactly retrograded. Since the program identifies rhythm by measuring the distance between consecutive attack-points, this particular instance of rhythm retrograde would not have been detected.

An examination of some of the slightly shorter patterns found in the Test-5 analysis showed some less obvious examples of tonal retrograde contained in other voices of the motet 14:

Pattern	Notes	Related to	Notes	Test	Length
1436	37 to 2	217	1086 to 1	134 5	10

Appendix B, p. 532.

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Pattern	Notes	Related to	Notes	Test	Length
1438	952 to 3	1014	2751 to 2775	5	10



ese patterns show other instances of retrograde contour which might undetected by the analyst.

Test 13 located patterns which had identical rhythmic content and a mirror of their pitch contours. This analysis of the Dunstable motet

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yielded 369 such events of which the longest pattern contained twelve notes. Again the longest pattern was found in the tenor voice 15:

Pattern	Notes	Related to	Notes	Test	Length
256	1 to 241	L	373 to 613	13	12



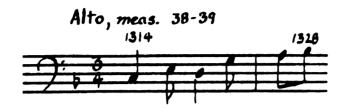


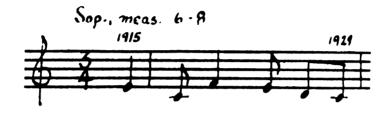
Examples of some shorter and more obscure patterns are shown below 16:

¹⁵ Appendix B, p. 552.

¹⁶ Appendix B, p. 546 and p. 545, respectively.

Pattern	Notes	Related	to	Notes	Test	Length
235	1314 to 1	L328	•	1915 to 1929	13	6





Pattern	Notes	Related to	Notes	Test	Length
218	1626 to 1	1644	2715 to 2733	13	5





Pattern	Notes	Related to	Notes	Test	Length
214	1082 to 1	1104	1686 to 1708	13	5





At first glance, it might appear that these computer-related passages are rhythmically unrelated; however, a closer examination shows that the distance between the adjacent attack-points for each of the related passages was the same regardless of the prevailing time signature, notational differences, or placement of pattern within the measure. Pattern 214 illustrates particularly well the ability of the computer program to match visually dissimilar patterns.

One other analysis of the Dunstable motet was included with this thesis, and that was Test 12. For this test, the input data was rearranged so that the top voice was submitted first, followed by the middle and bottom voices, respectively. Such restructuring of the data deck caused patterns occurring later in the data deck to be listed in the order of their appearance in the top voice. 17

¹⁷A score containing these new reference numbers is shown in Appendix B, pp. 556-560.

Test 12 located patterns which contained the same rhythm and interval content. The longest of these patterns consisted of six notes and are shown on the next page 18:

¹⁸Appendix B, p. 583.

Length	9 9	3	*	433
Test	12	41 45		(2) A
Notes	393 to 413 417 to 433		\$	
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Notes	21 to 41 45 to 61	9 - 1		32-37
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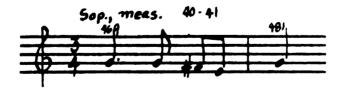
Smaller frequently used patterns were listed as well. For instance, the following cadence figure (first found in measures 5-6) was reported to have appeared again in measures 9-10, 36-37, and 40-41, respectively 19:

Pattern	Notes	Related to	Notes	Test	Length
99	49 to 61	•	97 to 109	12	5
100	49 to 61	_	421 to 433	12	5
101	49 to 61	_	469 to 481	12	5









¹⁹ Appendix B, p. 582.

Selected results from analyses of Hindemith's "Fuga nona in B-flat" from Ludis Tonalis. Hindemith's Ludis Tonalis consists of twelve fugues for piano, with each fugue separated from each other fugue by an interlude. The entire collection is introduced and concluded with an elaborate prelude and postlude, respectively. The work is subtitled "Studies in Counterpoint, Tonal Organization and Piano Playing," and demonstrates Hindemith's ability to employ successfully many complex contrapuntal techniques with his quartal-harmonic style of composition.

For this chapter, a portion of the "Fuga nona in <u>B-flat</u>" was chosen to illustrate how the program was able to locate original patterns as well as inversions, retrogrades, and retrograde inversions of pitch content. The program was also used to locate rhythm and retrograde rhythm patterns. The complete analyses and copy of the musical score for this fugue are contained in Appendix B.

The fugue was encoded and analyzed in two ways. It was first encoded in its entirety and analyzed using Test 0. This produced an interval analysis for the entire fugue. The bottom-sounding voice of the fugue was then analyzed separately using tests selected to illustrate how the program was able to locate some of the complex relationships contained in this melodic line.

The Test 0 analysis 20 requires little explanation. Hindemith used mostly small melodic intervals (from the unison through the minor third) in his writing. Of the remaining larger intervals, the ones which occurred most frequently were the perfect fourth, minor seventh,

²⁰ Appendix B, p. 587.

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octave, and perfect fifth. No particular interval size was associated with any particular ascending or descending direction.

As might be expected, the lengthiest melodic patterns located by the computer programs were statements of the fugue subject or variants of it. The Test-2 analysis, which used exact interval contour as the criterion for pattern identification, located two statements of the original subject in the excerpt analyzed. The second appearance of the subject was transposed to <u>E-flat</u> with the duration of each pitch doubly augmented. The Test-2 analysis identified this event on the basis of transposed intervals only; it did not compare the rhythmic content of the two statements:

Pattern	Notes	Related to	Notes	Test	Length
643	1 to	49	737 to 833	2	15



Appendix B, p. 634. This, and all other excerpts from <u>Ludis</u>
<u>Tonalis</u>, reproduced courtesy of Belwin Mills Publishing Corp., <u>Melville</u>, New York, sole agents for the copyright owners.

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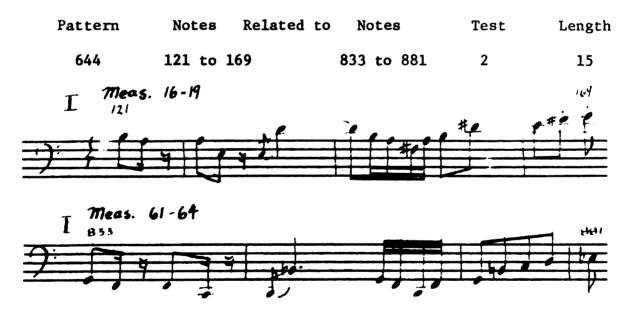
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The third statement of the original subject was only identified through the first fourteen notes in as much as the last pitch was tonally altered²²:

Pattern	Notes	Related to Notes	Test	Length
636	1 to 45	1041 to 1085	2	14



This analysis also related two melodic events which, coincidentally, were statements of the subject in inversion²³:



The data were also analyzed to locate patterns that were exact retrogrades of each other. Examples of retrograde statement of the subject beginning in measures 33 and 38 were identified by pattern

²² Appendix B, p. 633.

²³ Appendix B, p. 634.

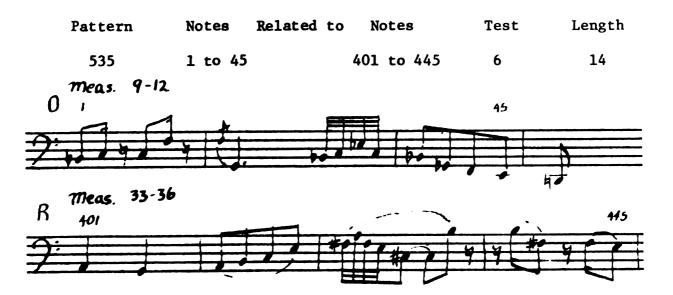
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statements 535 through 539. Because the last note of the original subject was altered when the subject was presented in retrograde, the beginning and concluding notes of the subject were sometimes not precisely identified by the computer program, as is illustrated below 24:



The Test-12 analysis was also used with this excerpt. This test required that patterns not only show the same intervallic relationship as was used for Test 2, but also have identical rhythmic content.

Because of the additional criterion added to this latter test, only 488 such relationships were located, which is considerably less than the 642 patterns identified for the less stringent Test-2 analysis. Since the resulting Test-12 patterns look similar to those shown for Test 2, none of them will be illustrated here.

The Test-14 analysis located patterns which were rhythmically identical and also showed exact inversion. One such statement of the subject, as located by the program, is shown below 25:

²⁴ Appendix B, p. 666.

²⁵Appendix B, p. 726.

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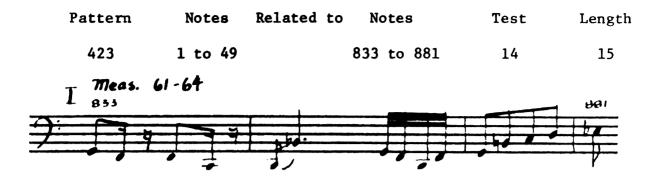
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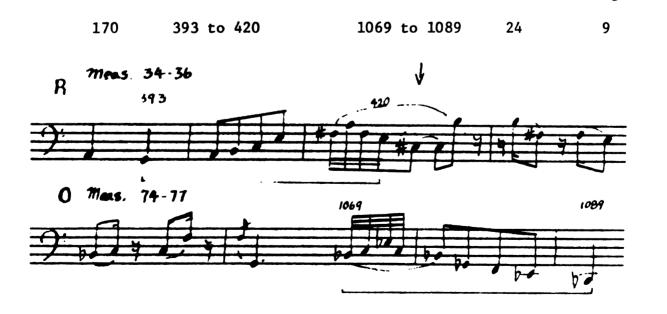
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The Test-6 analysis, described earlier, located some complete statements of the subject presented in exact pitch retrograde; however, the Test-24 analysis was unable to locate any complete examples of the subject presented in exact pitch retrograde and with exact rhythm retrograde. The reason for this was that Hindemith slightly altered the rhythmic content of the subject, when he presented it in retrograde. In the following example from the Test-24 analysis, only a portion of the original subject and the retrograde version were related. The point where the rhythms differ between the two versions of the subject is indicated with an arrow²⁶:



Related to

Notes

Length

Test

Pattern

Notes

²⁶Appendix **B**, p. 744.

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The rhythm alteration in the retrograde form, although slight, prevented the program from identifying the complete statements of the subject as being intervallically and rhythmically related in retrograde form. The program will not list any rhythmic deviations or modifications from the designated criterion.

This excerpt did not contain a complete statement of the subject in retrograde inversion. The Test-26 analysis did locate one partial statement (as well as many smaller fragments) 27:

Pattern	Notes	Related	to N	lotes	Test	Length
189	601 to 62	20	1069	to 1085	26	8



The analysis was able to locate some additional instances of retrograde inversion by matching statements of the subject in retrograde with other statements of the subject in inversion. Such statements do show the retrograde inversion relationship with respect to each other 28:

²⁷Appendix B, p. 762.

²⁸ Appendix B, p. 762.

Pattern	Notes	Related to	Notes	Test	Length
188	401 to 4	¥20	861 to 877	26	8



The purpose of analyzing excerpts by Varèse, Dunstable, and Hindemith for this thesis was not to draw conclusions about the works themselves, but rather to illustrate the type of information available to the analyst through use of the music analysis program. The program was written with the assumption that the analyst would select the test most appropriate to his needs, and then use the results of the analyses to help determine the importance of specific melodic patterns to the work under study. The program draws no conclusions about the importance of the relationships it has located; all aspects of musical and analytical judgment must be supplied by the analyst.

CHAPTER IV

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Summary

A number of problems have been associated with microanalytical study of music. Some of the most difficult problems have been related to the task of gathering complete and accurate information concerning the presence of small, objectively-defined musical events. Such a task is necessary before an analyst can draw conclusions about the smaller elements of musical style of a composer. Prior to the introduction of computer-assistance to this task, the analyst was greatly limited by the slowness of the procedure, the ever-present problem of human error, and the possibility that familiarity with a musical style might influence his ability to collect impartially this information.

The purpose of this thesis was to explore one possible approach to micro-analysis of melodic lines by writing a computer program which would help the analyst locate specific types of melodic patterns.

In addition, the program provided supplementary information about the frequency-of-occurrence of each melodic interval from the unison through two octaves.

The program listed the precise location of any of the following types of melodic patterns depending upon which of twenty-six optional tests were chosen by the program user:

- 1) exact 0, I, R, and RI pitch relationships;
- 2) tonal (i.e., direction only) O, I, R, and RI melodic relationships;
- 3) O or R rhythm regardless of pitch content (limited to analysis of rational rhythms only); and
- 4) O or R rhythm occurring with any of the pitch relationships described in (1) or (2).
- 0, I, R, and RI relationships were chosen because music analysts have shown interest in these relationships, and because such patterns can be clearly defined to analysts and the computer.

The subject of melodic patterns was chosen for development of the program because the importance of perception of melodic patterns to both the composer and the listener has been suggested by composers, music analysts, and other investigators. It seemed likely, therefore, that the development of a computer program to assist in identifying certain types of melodic patterns might be of value to a number of areas of study.

The results of each computer test were presented in two ways:

first, in a series of lists (collectively designated as a "Type-I listing")

which presented the patterns in order of increasing length from three

notes in length to as long as was necessary to accommodate the lengthiest

patterns; and second, in a format (designated as a "Type-II listing")

which showed the subpatterns which occurred most frequently within the

lengthiest pattern (or patterns) found in the analysis.

It was originally intended that the program list all of the melodic patterns fitting the criterion for each test; however, testing of the program showed that certain musical passages caused the program to list

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3			
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some patterns which were ambiguous and relatively useless to the program user. After it had been determined that the elimination of these ambiguous patterns would not adversely affect the thoroughness of the pattern analyses, the program was subsequently modified so that they were eliminated from the computer listings. Further testing determined that the program provided the most useful listing of patterns, when the melodic material of most interest to the analyst appeared near the beginning of the data deck.

The program was written in the FORTRAN IV programming language.

Since none of the existing systems used for converting music to computer input data was found to be applicable to this project, another encoding procedure was developed especially for use with this program.

Music examples by Varèse, Hindemith, and Dunstable were encoded and analyzed in order to illustrate the type of information which the program provided and how the music of different stylistic periods could be analyzed with the program.

The thesis was limited to this one approach of analyzing melodic lines. The computer program was limited in the following ways:

- it was limited to the analysis of strictly linear music;
 i.e., music in which a specified number of voices was defined;
- 2) no vertical or harmonic analysis was attempted; and
- 3) the program was not designed to read or analyze irrational rhythms.

Conclusions and recommendations

The strength of the computer lies in its ability to process large amounts of numeric or symbolic information quickly and accurately.

This computer program was written to save the music analyst time and improve the thoroughness and accuracy in gathering information about the presence of specific melodic patterns. In this respect, it has accomplished its purpose within its stated limitations. The strength of this program, however, is not its ability to shorten the overall amount of time needed to analyze a given work, but rather to shorten the amount of time needed to gather preliminary information, thereby making more time available for the analyst to draw conclusions, both objective and subjective, about the work under study. The many different types of patterns which may be located with this program should allow the user to investigate the importance of many more types of melodic relationships to a wider range of musical styles than has been possible with any previously reported computer program of this type.

It is recommended that investigators interested in exploring the importance of the O, I, R, and RI relationships to linear music implement this program and use its strengths to support their own studies.

It is further recommended that a future study into the problem of pattern perception be directed towards the development of more effective criteria for identifying other structurally important relationships in linear music, and that future investigators determine the effectiveness of these new criteria with programs such as this.

It is also recommended that an encoding system for translating the musical score to computer input data be developed which will bypass use of the punched card or the need for other preliminary encoding procedure. An inexpensive procedure of this type would encourage the development of effective approaches to the computer-assisted analysis of music.



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APPENDIX A

Computer Output for Analyses of Illustrative Music Examples

As was stated earlier in the thesis, each pattern-statement shown in this Appendix designates two specific melodic excerpts which display a previously defined musical relationship.

The reader should refer to the indicated musical example when examining each illustration; the pattern lists cannot be used effectively without reference to the associated musical example.

******* MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 1

TEST REQUESTED 1 UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 15
54 55 54 52 54 61 59 59 57 62 61 52 54 50 61

NOTES 16 THROUGH 18
59 54 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION



ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 2 MINOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 OCTAVE MINOR 9 MAJOR 9 MINOR 10 PERF. 11 COMP. TT PERF. 12 MINOR 13 MAJOR 13 MAJOR 14 MAJOR 14 THO OCT.	3 6 0 1 2 0 1 0 1 0 0 0 0 0 0 0 0 0 0	18.75 37.50 0.0 6.25 12.50 0.0 6.25 0.0 6.25 0.0 6.25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
UNISON INTERVALS EXCEEDING TWO OCTAVES	1 0	6.25 0.0

16 INTERVALS COUNTED

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINCR 2 MAJCR 2	1 2	16.67 33.33
MINCR 3 MAJOR 3	0 0	0.0 0.0
PERF. 4 TRITONE	1 0	16.67
PERF. 5 MINCR 6 MAJOR 6	1 0 0	16.67 0.0 0.0
MINGR 7 MAJOR 7	0 1	0.0 16.67
CCTAVE FINGR 9	0 0 0	0.0 0.0 0.0
PAJCR 9 PINOR 10 PAJOR 10	0	0.0
PERF. 11 COMP. TT	o o	0.0 0.0
PERF. 12 MINOR 13 MAJOR 13	0 0 0	0.0 0.0 0.0
MAJOR 13 MINOR 14 MAJOR 14	0	0.0 0.0 0.0
TWC OCT. INTERVALS EXCEEDING TWO	0	0.0
CCTAVES		

6 ASCENDING INTERVALS COUNTED

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
FINCR 2 MAJOR 2 MINGR 3 MAJOR 3	2 4 0	22.22 44.44 0.0
PERF. 4 TRITGNE	1 1 0	11.11 11.11 0.0
PERF. 5 MINGR 6 MAJOR 6	0 0 1	0.0 0.0 11.11
MINOR 7 MAJOR 7 GCTAVE	0 0 0	0.0 0.0 0.0
MINGR 9 PAJOR 9 MINGR 1C	0 0 0	0.0 0.0 0.0
PERF. 11 CCMP. TT	0 0 0	0.0 0.0 0.0
PERF. 12 MINOR 13 MAJOR 13 MINOR 14	0 0 0	0.0 0.0 0.0 0.0
FAJOR 14 TWO OCT. INTERVALS	0 0 0 0	0.0 0.0 0.0
FXCEEDING TWO OCTAVES	_	

9 DESCENDING INTERVALS COUNTED

• **(**) ii.

*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 1

PATTERN	NOTES		RELATED TO	٨	OTES		TEST	LENGTH
1	1 TO	2		5	TO	7	1	3
2	1, TO	3 3		9	T 0	11	1	3 3
3	1 70	2		12	TO	14	1	3
4	1 10	3		14	TO	16	1	3
5	3 TO	3 3 5		8	TO	10	1	3
6	3 TO	5		11	TO	13	1	3 3 3 3
7	3 TO	5		13	TO	15	1	3
**** FOR	5 TO	7.	SEE	1	TO	3	ABOVE ***	
**** FOR		10.	SEE	3	T 0	5	ABOVE ***	· •
**** FOR		11.	SEE	1	TO	3	ABOVE ***	: **
**** FOR		13,	SEE	3	T O	5	ABOVE ***	*
**** FOR	12 TO	14.	SEE	1	TO	3	ABOVE ***	
**** FOR		15.	SEE	3	TO	5	ABOVE ***	•
8	1 10	4	366	9	TO	12	1	4
9	1 TO	4		14	TO	17	1	4
10	2 TO	5		10	10	13	1	4
11		11		11	TO	13	1	4
12		11		13	TO	16	1	4
			CEE	1	TO	4	ABOVE ***	*
**** FOR		12.	SEE	2	TO	5	ABOVE ***	*
**** FOR ****		13.	SEE See	8	TO	11	ABOVE ***	•
		14.	366		TO	13	MOUVE TTT	_
13		5		9 13	TO	17	1	5 5
14		12	CEF				400VE #**	→
**** FOR		12.	SEE	8	TO	12	ABOVE ***	*
**** FOR	9 TO	13.	SEF	1	TO	5	ABOVE ***	∓

END OF TYPE I LISTING. TOTAL OF 14 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 1 TONAL CENTOUR (ORIGINAL)

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL PATTERN	8 TO 12	2	5
CRIGINAL PATTERN	1 TO 5	2	5
SUBPATTERN	3 TO 5	4	3

**** TEST 1 COMPLETED AT 102 SECONDS INTO EXECUTION ****

3331 . . . ***** MUSIC MELODIC PATTERN ANALYSIS ********

APPEND IX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 2

TEST REQUESTED 2
UNITS OF DATA PER CARD 15

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 15 57 59 55 57 60 59 57 62 64 67 66 61 62 54 57 NOTES 16 THROUGH 20 59 62 61 59 -99

THE FOLL OWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITER ITONS LONGER THAN FOUR NOTES-IN-LENGTH

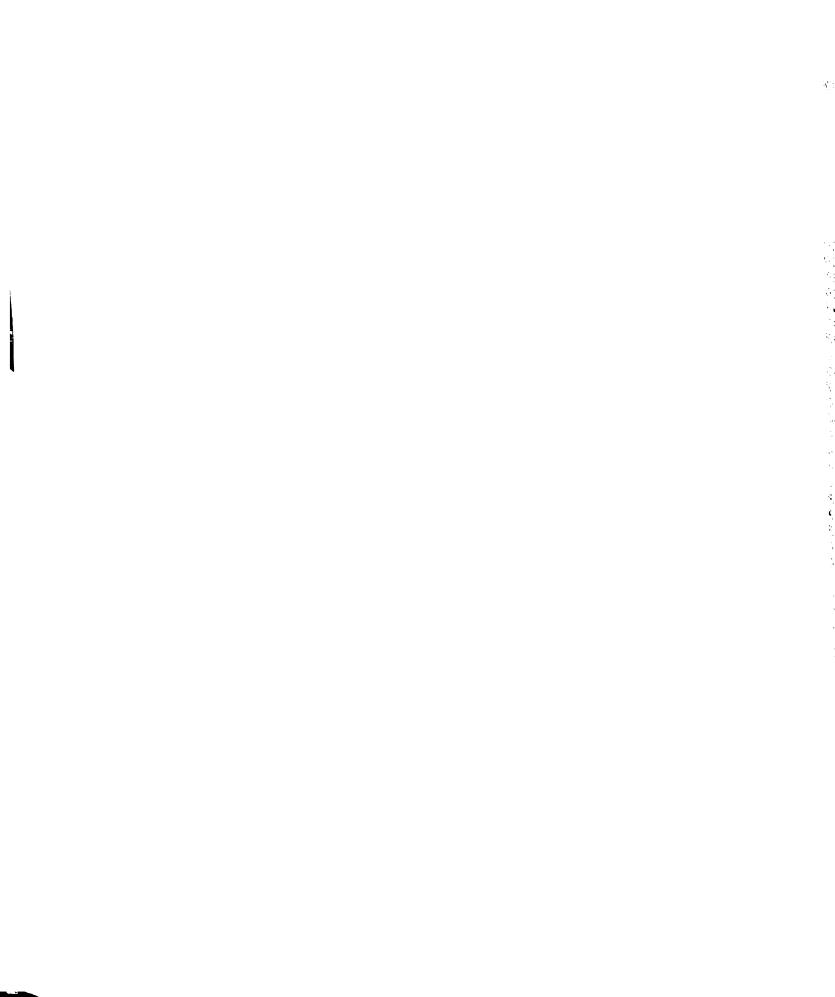


APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 2 ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 7 OCTAVE MINOR 7 OCTAVE MINOR 9 MAJOR 9 MAJOR 10 PERF. 11 COMP. TT PERF. 12 MINOR 13		
MAJOR 13 MINOR 14 MAJOR 14 TWO OCT. UNISON INTERVAL S EXCEED I N G TWO OCTAVES	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0

18 INTERVALS COUNTED

^{*}INCLUDING UNISONS



ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TCTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
PINCR 2	1	10.00
MAJCR 2	4	40.00
MINCR 3	4	40.00
MAJOR 3	0	0.0
PERF. 4	1	10.00
TRITCHE	Ō	0.0
PERF. 5	0	0.0
FINCR 6	0	0.0
MAJCR 6	Ö	0.0
MINOR 7	0	0.0
MAJOR 7	Ö	0.0
CCTAVE	0	0.0
MINCR 9	0	0.0
MAJOR 9	Ō	0.0
MINGR 10	Ö	0.0
MAJOR 10	Ö	0.0
PERF. 11	Ö	0.0
COMP. TT	Ö	0.0
PERF. 12	0	0.0
TINER 12	Ö	0.0
FAJOR 12	Ö	0.0
MINOR 14	Ö	0.0
TAJCR 12	. 0	0.0
ME ULT	Ö	0.0
MIERVAL C	Ö	0.0
FXCEED I NG TWO	"	

10 ASCENDING INTERVALS COUNTED

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
FINCR 2	3	37.50
MAJOR 2	2	25.00
MINOR 3	0	0.0
MAJER 3	1	12.50
PERF. 4	1	12.50
TRITONE	0	0.0
PERF. 5	Ō	0.0
FINOR 6	1	12.50
MAJOR 6	Ö	0.0
MINOR 7	0	0.0
PAJCR 7	Ö	0.0
CCTAVE	Ō	0.0
MINCR 9	0	0.0
MAJOR 9	0	0.0
MINOR 10	0	0.0
MAJOR 10	Ö	0.0
PERF. 11	0	0.0
COMP. TT	O	0.0
PERF. 12	Ō	0.0
MINGR 13	0	0.0
MAJCR 13	Ō	0.0
MINCR 14	Ö	0.0
MAJOR 14	0	0.0
THE OCT	Ö	0.0
INTERVALS	Ö	0.0
EXCEED I NG TWO	-	

8 DESCENDING INTERVALS COUNTED

*** TYPE I LISTING ***

PATTER N		NOTES	S R	ELATED TO	ı	NOTE	S	TEST	LENGTH
l	3	TO	5		8	TO	10	2	3
2	3	TO	5		15	TO	17	2	3
3	4	TO	6		9	TO	11	2	3
4	4	TO	6		16	TO	18	2	3
5	5	TO	7		17	ΤO	19	2	3
**** FCR	8	TO	10.	SEE	3	TO	5	ABOVE ***	k*
**** FCR	9	TO	11.	SEF	4	TO	6	ABOVE ***	**
**** FOR	15	TO	17.	SEE	3	TO	5	ABOVE ***	**
6	3	TO	6		8	TO	11	2	4
7	3	TO	6		15	TO	18	2	4
8	4	TO	7		16	TO	19	2	4
**** FOR	8	TO	11.	SEE	3	TO	6	ABOVE ***	**
9	3	TO	7		15	TO	19	2	5

FAC OF TYPE I LISTING. TOTAL OF 9 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 2 FXACT CCNTOUR (ORIGINAL)

		LOCATI OF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL	PATTERN	3 TO	7	2	5	

**** TEST 2 COMPLETED AT 93 SECONDS INTO EXECUTION ****

********* MUSIC MELODIC PATTERN ANALYSIS *******

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 3

TEST REQUESTED 3
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 14 60 63 63 62 67 65 59 5/ 55 55 60 55 70 -99

THE FOLL OWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PAT TERMS WHICH LACK CHANGE- OF-DIRECTION



The interval tables appearing with Tests 3 through 26 omitted in the reduce the size of this appendix.

*** TYPE I LISTING ***

PATTERN	NCTES		RELATED	TO	١	NOTE	S	TEST	L ENG TH
1	1 TO	3			8	TO	10	3	3
2	2 TO	4			9	TO	11	3	3
3	3 TO	5			10	TO	12	3	3
4	4 10	6			11	TO	13	3	3
5	1 TO	4			8	TO	11	3	4
6	2 TO	5			9	TO	12	3	4
7	3 TO	6			10	TO	13	3	4
8	1 TO	5			8	TO	12	3	5
9	2 TO	6			9	TO	13	3	5
10	1 TO	6			8	TO	13	3	6

FAC OF TYPE I LISTING. TOTAL OF 10 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 3 TONAL INVERSION

		LOCATI OF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
rrigin & L	PATTERN	1 TO	6	2	6	

**** TEST 3 COMPLETED AT 110 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 4

TEST REQUESTED 4
UNITS OF DATA PER CARD 15

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 15 57 56 62 62 64 59 60 5+ 55 56 50 50 64 65 59 NOTES 16 THROUGH 18 59 57 -99

THE FOLL OWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN
FCUR NOTES-IN-LENGTH



*** TYPE I LISTING ***

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1	1 TO	3	6 TO 8	4	3
2	1 TO	3	9 TO 11	4	3
3	1 TO	3	13 TO 15	4	3
4	2 TO	4	10 TO 12	4	3
5	2 TO	4	14 TO 16	4	3
6	3 TO	5	15 TO 17	4	3
7	1 TO	4	9 TO 12	4	4
8	1 TO	4	13 TO 16	4	4
9	2 TO	5	14 TO 17	4	4
10	1 TO	5	13 TO 17	4	5

FND OF TYPE I LISTING. TOTAL OF 10 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 4 EXACT INVERSION

		LOCATION OF FIRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL	PATTERN	1 TO	5	2	5	

**** TEST 4 COMPLETED AT 92 SECONDS INTO EXECUTION ****

********* MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 5

TEST REQUESTED 5
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 15 59 55 57 52 53 52 5+ 57 62 58 58 64 62 64 NOTES 16 THROUGH 22 57 56 55 58 57 57 -99

THE FCLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION



*** TYPF I LISTING ***

PATTERN	NOTES	f	RELATED TO	NOTE	S	TEST	LENGTH
1 2 3 4 5 6 7 8 9 10 11 **** FOR **** FOR **** FCR	1 TO 2 TO 2 TO 3 TO 3 TO 3 TO 4 TO 4 TO 4 TO 5 TO 6 TO 9 TO 10 TO	3 4 4 5 5 5 5 6 6 6 7 8 11 12	SEF SEF SEF SEE	11 TO 10 TO 19 TO 5 TO 9 TO 12 TO 14 TO 18 TO 6 TO 13 TO 17 TO 3 TO 4 TO 3 TO 1 TO	6 5 3	5 5 5 5 5 5 5 5 5 5 5 5 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3
**** FOR **** FOR **** FOR **** FOR **** FOR	11 TO 12 TO 13 TO 14 TO 17 TO	13. 14. 15. 16.	SEE SEE SEE SEE	2 TO 3 TO 4 TO 3 TO 4 TO	5 6 5 6	ABOVE ***: ABOVE ***: ABOVE ***: ABOVE ***: ABOVE ***:	k
13 14 15 16 17	1 TO 2 TO 2 TO 3 TO 3 TO 4 TO	4 5 5 6 6 7		10 TO 9 TO 18 TO 13 TO 17 TO 12 TO	13 12 21 16 20 15	5 5 5 5 5	4 4 4 4 4
FCR 18 19 FOR	5 TO 6 TO 8 TO 10 TO 11 TO 12 TO	8. 9 11 13. 14.	SEF SEF SEE SEE	3 TO 16 TO 14 TO 1 TO 2 TO 3 TO	6 19 17 4 5	AROVE ***: 5 5 ABOVE ***: ABOVE ***: ABOVE ***:	
20 21 22 23 24	13 TO 1 TO 2 TO 3 TO 5 TO	16. 5 6 7 9	SEE	4 TO 9 TO 17 TO 12 TO 16 TO	7 13 21 16 20	ABOVE **** 5 5 5 5	
25 1411 FCR 1411 FCR 1411 FCR	6 TO 6 TO 7 TO 10 TO 11 TO 12 TO	10 10. 11 14. 15.	SEE SEE SEE	15 TO 6 TO 14 TO 1 TO 2 TO 3 TO 15 TO	18 5 6	5 ABOVE ***: 5 ABOVE ***: ABOVE ***: 5	\$ 5 \$
**** FOR	5 TO 5 TO	10.	SEE	5 10		ABOVE ***	

PATTERN	NCTES	RELATED	TO	NOTES	5	TEST	LENGTH
27 28	6 TO 5 TO	11 11		14 TO 14 TO		5 5	6 7

FAD OF TYPE I LISTING. TOTAL OF 28 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 5 TONAL RETROGRADE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL PATTERN	5 TC 11	2	7

**** TEST 5 COMPLETED AT 128 SECONDS INTO EXECUTION ****

******** MUSIC MELJDIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 6

TEST REQUESTED 6
UNITS OF DATA PER CARD 15

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 15 55 61 60 56 59 60 64 63 69 65 64 61 57 56 53 NOTES 16 THROUGH 20 52 58 57 53 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITER-11 IONS LONGER THAN FOUR NOTES-IN-LENGTH



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 6

PATTERN	NGTES	RELATED TC	NOTES	TEST	LENGTH
1	4 TO	6	10 TO 12	6	3
2	4 TO	6	13 TO 15	6	3
3	5 TO	7	9 TO 11	6	3
4	5 TO	7	12 TO 14	6	3
5	4 TO	7	9 TO 12	6	4
6	4 TO	7	12 TO 15	6	4

FND OF TYPE I LISTING. TOTAL OF 6 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 6 EXACT RETROGRADE

	LOCATIO OF FIRS OCCURREN	T	TOTAL NUMBER OF OCCURRENCES	LENGTH OF PATTERN	
CRIGINAL PATTERN	4 TO	7	3	4	

**** TEST 6 COMPLETED AT 75 SECONDS INTO EXECUTION ****

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******** MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 7

TEST REQUESTED 7
UNITS OF DATA PER CARD 15

COMPUTER REFERENCE NUMBER ASSIGNMENT

NCTES 1 THROUGH 13
52 54 54 62 60 59 55 5+ 67 67 68 66 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 7

PATTERN	NCTES	S R	RELATED TO	NOTES		TEST	LENGTH
1	1 TO	3		9 T 0	11	7	2
2	2 70	4		8 TO	10	7	3
3	3 TO	5		7 TO	9	7	3
4	7 TO	9		10 TO	12	7	3
**** FOR	8 10	10.	SEE	1 TO	3	ABOVE **	**
5	1 TO	4		8 TO	11	7	4
6	2 TO	5		7 TO	10	7	4
7	3 TO	6		6 TO	9	7	4
8	1 TO	5		7 T O	11	7	5
9	2 TO	6		6 TO	10	7	5
10	1 TO	6		6 TO	11	7	6

FAC OF TYPE I LISTING. TOTAL OF 10 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 7 TGNAL RET. INVERSION

	LOCATION CF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	I.ENGTH OF PATTERN
CRIGINAL PATTERN	1 TO 6	2	6

**** TEST 7 COMPLETED AT 105 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 8

TEST REQUESTED 8
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NCTES 1 THROUGH 15 59 59 6C 6O 7O 64 64 67 59 62 62 56 66 69 69 NOTES 16 THROUGH 18 70 70 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH



*** TYPE I LISTING ***

APPENDIX & ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 8

PATTERN	NCTES		RELATED TO	NOTE	S	TEST	LENGTH
1	1 TO	3		15 TO	17	8	3
2	2 TO	4		14 TO	16	8	3
3	4 TO	6		11 TO	13	8	3
4	5 TO	7		10 TO	12	8	3
5	6 TO	8		9 TO	11	8	3
6	6 TO	8		13 TO	15	8	3
7	1 TO	4		14 TO	17	8	4
8	4 TO	7		10 TO	13	8	4
9	5 TO	8		9 TO	12	8	4
10	4 TO	8		9 TO	13	8	5

FAD OF TYPE I LISTING. TOTAL OF 10 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 8 EXACT RET. INVERSION

	LOCATION OF FIRST	T	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
(RIGINAL PATTERN	4 TG	8	2	5

**** TEST 8 COMPLETED AT 93 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 9

TEST REQUESTED 9
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16 5) 0 50 50 50 0 50 50 50 50 50 50 50 0

NOTES 33 THROUGH 43 50 50 50 50 0-99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH CONTAIN AN UNDEFINED RHYTHM



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 9

PATTERN	NOTES		RELATED TO	1	NOTES		TEST	LENGTH
1	1 TO	4		5	TO	8	9	3
2	1 TO	4		11	TO	14	9	3
3	1 TO	4		15	TO	18	9	3
4	1 TO	4		21	TO	24	9	3
5	1 TO	4		25	TO	28	9	3
6	1 70	4		31	TO	34	9	3 3
7	1 TO	4		35	TO	38	9	3
8	3 TO	5		9	TO	11	9	3
9	3 TO	5		13	TO	15	9	3 3
10	3 TO	5		19	TO	21	9	3
11	3 TO	5 5		23	TO	25	9	3 3 3
12	3 TO	5		29	TO	31	9	3
13	3 TO	5		33	TO	35	9	
14	3 TO	5		39	TO	41	9	3
15	4 TO	7		10	TO	13	9	3
16	4 TO	7		14	TO	17	9	3 3 3 3
17	4 TO	7		20	TO	23	9	3
18	4 TO	7		24	TO	27	9	
19	4 TO	7		30	TO	33	9	3
20	4 TO	7		34	TO	37	9	3
**** FOR	5 TO	8.	SEE	1	TO	4	ABOVE ***	*
**** FOR	9 TO	11.	SEF	3	TO	5	ABOVE ***	*
**** FOR	10 TO	13.	SEE	4	TO	7	ABOVE ***	*
**** FOR	11 TO	14.	SEE	1	TO	4	ABOVE ***	*
FOR	13 TO	15.	SEE	3	TO	5	ABOVE ***	*
FOR	14 TO	17.	SEE	4	TO	7	ABOVE ***	*
FCR	15 TO	18,	SEE	1	TO	4	ABOVE ***	*
FCR	19 TO	21.	SEF	3	TO	5	ABOVE ***	*
FCR	20 TO	23.	SEE	4	TO	7	ABOVE ***	*
FOR	21 TO	24.	SEF	1	TO	4	ABOVE ***	*
	23 TO	25.	SEE	3	TO	5	ABOVE ***	*
FCR	24 TO	27.	SEE	4	TO	7	ABOVE ***	*
FOR	25 TO	28.	SEE	1	TO	4	ABOVE ***	*
FOR	29 TO	31.	SEE	3	TO	5	ABOVE ***	*
FCR	30 TC	33.	SEE	4	TO	7	ABOVE ***	*
FOR	31 TO	34,	SEE	1	TO	4	ABOVE ***	*
FOR	33 TO	35.	SEE	3	TO	5	ABOVE ***	*
FOR	34 TO	37.	SEE	4	TO	7	ABOVE ***	*
21 FOR	35 TO	38.	SEE	1	TO	4	ABOVE ***	*
55	1 TO	5		11	TO	15	9	4
23	1 10	5		21	TO	25	9	4
24	1 TO			31	TO	35	9	4
25	3 TO	5 7		9	TO	13	9	4
26	3 TO	7			TO	17	9	4
-	3 TO	7		19	TO	23	9	4

P ATTERN	NCTES	RELATED TO	NOTES	TEST L	ENGTH
27 28 29 30 31 32 33 34 35 36 37 38 40 41 *********************************	3 TO 3 TO 4 TO 5	7 7 7 8 8 8 8 8 8 9 9 9 11 11 11 13.	23 TO 27 29 TO 33 33 TO 17 10 TO 14 14 TO 18 20 TO 24 24 TO 28 30 TO 34 34 TO 38 15 TO 19 25 TO 29 35 TO 39 18 TO 21 28 TO 31 38 TO 41 3 TO 7 4 TO 8 1 TO 5 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 5 TO 9 8 TO 11 3 TO 7 4 TO 8 1 TO 5 3 TO 7 4 TO 8 1 TO 27 31 TO 37 9 TO 14 13 TO 18 19 TO 24 23 TO 28 29 TO 34 33 TO 38 14 TO 19 24 TO 39 15 TO 20 25 TO 30 35 TO 40 17 TO 21 27 TO 31	99999999999999999999999999999999999999	

P ATTERN	NCTES	RELATED TO	NOTES	TFST I	LENGTH
59 60 61 **** FOR 62 63 **** FOR *** FOR *** FOR	7 TO 8 TO 8 TO 9 TO 10 TO 10 TO 11 TO 13 TO 14 TO 15 TO	11 13 13 14. SEE 15 15 17. SEE 18. SEE 19. SEE 20. SEE 21. SEE	37 TO 41 18 TO 23 28 TO 33 3 TO 8 20 TO 25 30 TO 35 1 TO 7 3 TO 8 4 TO 9 5 TO 10 7 TO 11	9 ABOVE **** 9 9 ABOVE **** ABOVE **** ABOVE ****	*
*** FOR *** FOR	18 TO 19 TO 20 TO 21 TO 23 TO 24 TO 25 TO 27 TO 28 TO 29 TO 30 TO	23, SEF 24. SEE 25. SEE 27. SEE 28. SEF 29. SEE 30. SEE 31. SEE 33. SEE 34. SEE	10 TO 15 1 TO 7 3 TO 8 4 TO 9 5 TO 10 7 TO 11 8 TO 13 3 TO 8 10 TO 15	ABOVE ****	k k k k k k k
*** FOR 64 65 66 67 68 69 70 71 72 73	31 TO 1 TO 1 TO 1 TO 3 TO 3 TO 3 TO 4 TO 4 TO 4 TO 5 TO	37. SEE 8 8 8 9 9 9 10 10	1 TO 7 11 TO 18 21 TO 28 31 TO 38 13 TO 19 23 TO 29 33 TO 39 14 TO 20 24 TO 30 34 TO 40 15 TO 21	ABOVE **** 9 9 9 9 9 9 9 9 9 9	6 6 6 6 6 6 6 6
74 75 76 77 78 79 80 81 82 83	5 TO 5 TO 7 TO 7 TO 8 TO 8 TO 9 TO 9 TO 7 TO	11 11 13 14 14 15 15 17	25 TO 31 35 TO 41 17 TO 23 27 TO 33 18 TO 24 28 TO 34 19 TO 25 29 TO 35 20 TO 27 30 TO 37	9 9 9 9 9 9 9	6 6 6 6 6 6 6
FCR 13 FCR 14 FCR 15 FOR 15 FOR 15 FOR 17 FOR 19 FCR 20	T 0	18. SEE 19. SEE 20. SEE 21. SEE 23. SEE 24. SEE 25. SEE 27. SEE	5 TO 11 7 TO 13 8 TO 14	ABOVE ****	k k k k

PA TTERN	NOTES	RELA	TED TO	NOTES		TEST	LENGT
_ ≠ ≠ FOR	21 70	20	CEE	1 TO	0	A POVE +++	. 🕳
FOR	21 TO 23 TO	28, 29,	SEE SEE	1 TO 3 TO	8 9	ABOVE ***	• •
**** FGR	24 TO	30.	SEE	4 TO		ABOVE ***	* *
FCR	25 TO	31,	SEE	5 TO	11	ABOVE ***	*
FCR	27 TO	33.	SEE	7 TO	13	ABOVE ***	*
FCR	28 TO	34.	SEE	8 TO	14	ABOVE ***	*
FOR	29 TO	35.	SEE	9 TO	15	ABOVE ***	*
84	1 TO	9		11 TO	19	9	7
£ 5	1 TO	9		21 TO	29	9	7
86	1 TO	9		31 TO	39	9	7
87	3 TO	10		13 TO	20	9	7
88	3 TO	10		23 TO	30	9	7
89	3 TO	10		33 TO	40	9	7
9 C	4 TO 4 TO	11		14 TO 24 TO	21	9 9	7
9 1 9 2	4 TO	11 11		34 TO	31 41	9	7 7
93	5 TO	13		15 TO	23	9	7
94	5 10	13		25 TO	33	9	7
95	7 TO	14		17 TO	24	9	7
96	7 10	14		27 TO	34	9	7
97	8 TO	15		18 TO	25	9	7
98	8 TO	15		28 T O	35	9	7
99	9 TO	17		19 TO	27	9	7
100	9 TO	17		29 TO	37	9	7
101	10 TO	18		20 TO	28	9	7
102 103	10 TO	18		30 TO	38	9	7
104	1 10	10		11 TO	20	9	8
105	1 TO 1 TO	10		21 TO 31 TO	30	9 9	8
106	1 TO 3 TO	10 11		31 TO 13 TO	40 21	9	8
107	3 TO	11		23 TO	31	9	8 8
108	3 TO	11		33 TO	41	9	8
109	4 TO	13		14 TO	23	9	8
110 111	4 TO	13		24 TO	33	9	8
112	5 TO	14		15 TO	24	9	8
113	5 TO	14		25 TO	34	9	8
114	7 70	15		17 TO	25	9	8
115	7 10	15		27 TO	35	9	8
116	8 TO	17		18 TO	27	9	8
117	8 TO	17		28 TO 19 TO	37	9	8
118	9 TO 9 TO	18 18		19 TO 29 TO	28 38	9 9	8 8
119	10 TO	19		20 TO	29	9	8
120 121	10 TO	19		30 TO	39	9	8
125	1 70	11		11 TO	21	9	9
123	1 10	11		21 TO	31	9	9
124	i TO	11		31 TO	41	9	9
125	3 TO	13		13 TO	23	9	9
126	3 10	13		23 TO	33	9	9
127	4 TO	14		14 TO	24	9	9
	4 TO	14		24 TO	34	9	9



PATTERN	NOTES	RELATED TC	NOTES		TEST	LENGTH
128	5 10	15	15 TO	25	9	9
1 29	5 TO	15	25 TO 17 TO	35	9	9 9
1 30	7 TO 7 TO	17 17	27 TO	27 37	9	9
131 132	8 TO	18	18 TO	28	ģ	9
133	8 TO	18	28 TO	38	ģ	9
134	9 10	19	19 TO	29	ģ	ý
135	9 10	19	29 TO	39	9	9
136	10 TO	20	20 TO	30	9	9
137	10 TO	20	30 TO	40	9	9
138	1 TO	13	21 TO	33	9	10
139	3 TO	14	23 TO	34	9	10
140	4 TO	15	24 TO	35	9	10
141	5 TO	17	25 TO	37	9	10
142	7 TO	18	27 TO	38	9	10
143	8 TO	19	28 TO	39	9	10
144	9 TO	20	29 TO	40	9	10
145	10 70	21	30 TO	41	9	10
146	1 TO	14	21 TO	34	9	11
14 7	3 TO	15	23 TO	35	9	11
148	4 TO	17	24 TO	37	9	11
149	5 TO	18	25 TO	38	9	11
150	7 10	19	27 TO	39	9	11
15 1	8 TO	20	28 TO	40	9	11
152 153	9 10	21	29 TO	41	9 9	11 12
154	1 10	15	21 TO 23 TO	35 37	9	12
155	3 TO 4 TO	17 18	24 TO	38	9	12
156	5 TO	19	25 TO	39	9	12
157	7 TO	20	27 TO	40	9	12
158	8 TO	21	28 TO	41	ģ	12
159	1 10	17	21 TO	37	ģ	13
160	3 TO	18	23 TO	38	9	13
161	4 TO	19	24 TO	39	9	13
162	5 TO	20	25 TO	40	9	13
163 164	7 TO	21	27 TO	41	9	13
165	1 TO	18	21 TO	38	9	14
166	3 TO	19	23 TO	39	9	14
167	4 TO	20	24 TO	40	9	14
168	5 TO	21	25 TO	41	9	14
169	1 TO	19	21 TO	39	9	15
170	3 T O	20	23 TO	40	9	15
171	4 TO	21	24 TO	41	9	15
172	1 TO	20	21 TO	40	9	16
173	3 TO	21	23 TO	41	9	16
	1 TO	21	21 TO	41	9	17

*** TYPE II LISTING ***

PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 9

	LOCATI OF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CR IGINAL PATTERN	1 TO	21	2	17
SLBPATTERN	1 70	11	4	9
SUBPATTERN	3 TO	11	4	8
SUBPATTERN	1 TO	10	4	8
SUBPATTERN	4 TO	11	4	7
SUBPATTERN	3 TC	10	4	7
SUBPATTERN	1 70	Ğ	4	7
SUBPATTERN	5 TO	11	4	6
SUBPATTERN	4 TO	10	4	6
SLBPATTERN	3 TO	Š	4	6
SUBPATTERN	1 70	é	4	6
SUBPATTERN	7 TO	11	4	5
S UBPATTERN	5 TO	10	4	5
SUBPATTERN	4 TO	5	4	5
SUBPATTERN	3 TO	8	7	5
SUBPATTERN	1 10	7	4	5
SUBPATTERN	8 TO	11	4	4
	5 TO		· •	4
SUBPATTERN		9	4	
SUBPATTERN	4 TO	8	7	4
SUBPATTERN	3 TO	7	7	4
SUBPATTERN	1 TO	5	4	4
S L & PATTERN	4 TG	7	7	3 3
SUEPATTERN	3 TO	5	8	3

^{****} TEST 9 COMPLETED AT 313 SECONDS INTO EXECUTION ****

********* MUSIC MELODIC PATTERN ANALYSIS *********

A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 10

TEST REQUESTED 10
UNITS OF DATA PER CARD 16

COMPUTER REFERENCE NUMBER ASSIGNMENT

No TES 1 THROUGH 16 50 7 50 50 50 50 0 0 0 0 0 50 50 50 50 0

NOTES 49 THROUGH 49

THE FO L LOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH CONTAIN AN JNDEFINED RHYTHM

'SYM' DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

1 3 4 5 11 19 21 21 25 27 29 31 33 35 36 37 39 45 48

*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 10

PATT	ERN	١	OTES		RELATED	TO	١	OTES	•	TEST	LENGTH
:	1	1	10	4			13	τo	15	10	3
	2	1	TO	4			35	TO	37	10	3 3 3
3	3	5	TC	13			36	TO	39	10	3
****	FOR	11	TO	14.	SE	Ε	1	TO	4	ABOVE **	**
4	4	13	TO	15			33	TO	36	10	3
	5	14	TO	17			17	TO	21	10	3 3
6	5	14	TO	17			31	TO	35	10	3
***	FCR	33	TO	36.	SE	Ε	1	TO	4	ABOVE **	**
***	FOR	35	TO	37.	SE	Ε	13	TO	15	ABOVE **	**
7	•	5	TO	14			35	TO	39	10	4
8		11	TO	15	(SYM)		33	TO	37	10	4
9		13	TO	17			31	TO	36	10	4
10		14	TO	19			29	TO	35	10	4
***	FOR	33	TO	37,	SE	Ε	11	TO	15	ABOVE **	**
11		5	TO	15			33	TO	39	10	5
12		11	TO	17			31	TO	37	10	5
13		13	TO	19			29	TO	36	10	5 5
1 4		5	TO	17			31	TO	39	10	6
15		11	TO	19			29	TO	37	10	6
16		5	TO	19			29	TO	39	10	7

FND OF TYPE I LISTING. TOTAL OF 16 PATTERNS LOCATED.

₱ PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 10 ➡ HYTHM RETROGRADE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL PATTERN	5 TO 19	2	7

** TEST 10 COMPLETED AT 124 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANA_YSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 11

TEST REQUESTED 11 UNITS OF DATA PER CARD 12

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 12 5 C 0 62 61 62 0 52 J 64 62 64 0 NOTES 13 THROUGH 24 54 66 0 65 66 C 55 U 67 66 67 0 NOTES 25 THROUGH 25

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FR OM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION



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*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 11

PATTERN	NC	res	RELATED TO	١	IOTE	S	TEST	LENGTH
1	1 TO) 4		7	TO	10	11	3
2	1 70	3 4		19	TO	22	11	
2 3	3 T	5		9	TO	11	11	3
4	3 T(5		21	TO	23	11	3
5	4 T0			16	TO	19	11	3 3 3 3
6	5 TO	9		17	TO	21	11	3
**** FOR	7 TO	10.	SEE	1	TO	4	ABOVE ***	*
**** FCR	9 T	11.	SEE	3	TO	5	ABOVE ***	*
7	10 TO	13		13	TO	16	11	3
8	11 TO	14		14	TO	17	11	3
**** FOR	13 TO	16.	SEE	10	TO	13	ABOVE ***	*
* ** FOR	14 TO	17.	SEE	11	TO	14	ABOVE ***	*
**** FCR	16 TO	19	SEE	4	TO	7	ABOVE ***	*
**** FCR	17 TO			5	TO	9	ABOVE ***	*
9	1 TO			7	TO	11	11	4
10	1 TO			19	TO	23	11	4
11	4 TC			16	TO	21	11	4
12	5 TC			17	TO	22	11	4
** ** FOR	7 TC		SEE	1	TO	- 5	ABOVE ***	
13	4 TC			16	TO	22	11	5
14	5 T			17	TO	23	īī	5
15	4 TO				TO	23	ii	6

E NO OF TYPE I LISTING. TOTAL OF 15 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 11 EXACT RHYTHM WITH TONAL CONTOUR (ORIGINAL)

	LOCATION	TOTAL	LENGTH	
	OF FIRST	NUMBER OF	OF	
	OCCURRENCE	OCCURRENCES	Pattern	
CRIGINAL PATTERN	4 TO 11	2	6	

**** TEST 11 COMPLETED AT 107 SECONDS INTO EXECUTION ****

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******* MUSIC MELODIC PATTERN ANALYSIS **********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 12

TEST REQUESTED 12 UNITS OF DATA PER CARD 12

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 12 50 0 62 61 62 0 52 0 64 62 64 0 NOTES 13 THROUGH 24 54 66 0 65 66 0 55 0 67 66 67 0 NOTES 25 THROUGH 25

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITER41IONS LONGER THAN FOUR NOTES-IN-LENGTH



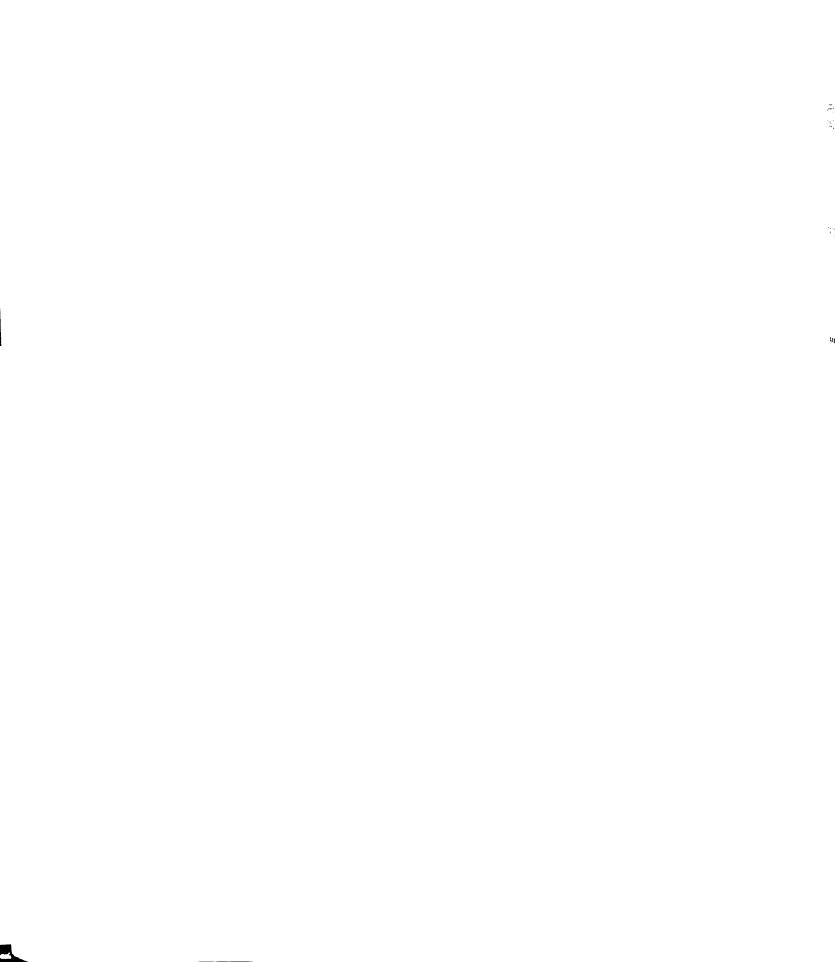
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*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 12

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1	1 TO	4	19 TO 22	12	3
2	3 TO	5	21 TO 23	12	3
3	1 TO	5	19 TO 23	12	4

END OF TYPE I LISTING. TOTAL OF 3 PATTERNS LOCATED.



APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 12
FXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL)

	LOCATION	TOTAL	LENGTH	
	OF FIRST	NUMBER OF	OF	
	OCCURRENCE	OCCURRENCES	Pattern	
CR I G INAL PATTERN	1 TC 5	2	4	

**** TEST 12 COMPLETED AT 74 SECONDS INTO EXECUTION ****

A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 13

TEST REQUESTED 13 UNITS OF DATA PER CARD 12

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 12 57 0 61 59 61 0 59 J 55 57 55 0 NOTES 13 THROUGH 24 58 54 0 56 54 0 55 J 52 54 52 0 NOTES 25 THROUGH 25 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION



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*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 13

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1	1 10	4	7 TO 10	13	3
2	1 TO	4	19 TO 22	13	3
3	3 TO	5	9 TO 11	13	3
4	3 TO	5	21 TO 23	13	3
5	4 TO	7	16 TO 19	13	3
6	1 TO	5	7 TO 11	13	4
7	1 70	5	19 TO 23	13	4

END OF TYPE I LISTING. TOTAL OF 7 PATTERNS LOCATED.

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APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 13
EXACT RHYTHM WITH TONAL INVERSION

	LOCATION		TOTAL	LENGTH	
	OF FIRST		NUMBER OF	OF	
	OCCURRENCE		OCCURRENCES	Pattern	
CRIGINAL PATTERN	1 TO	5	3	4	

*** TEST 13 COMPLETED AT 77 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 14

TEST REQUESTED 14
UNITS OF DATA PER CARD 12

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 12 57 0 61 59 61 0 59 J 55 57 55 0 NOTES 13 THROUGH 24 58 54 0 56 54 0 55 J 52 54 52 0 NOTES 25 THROUGH 25

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FR OM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

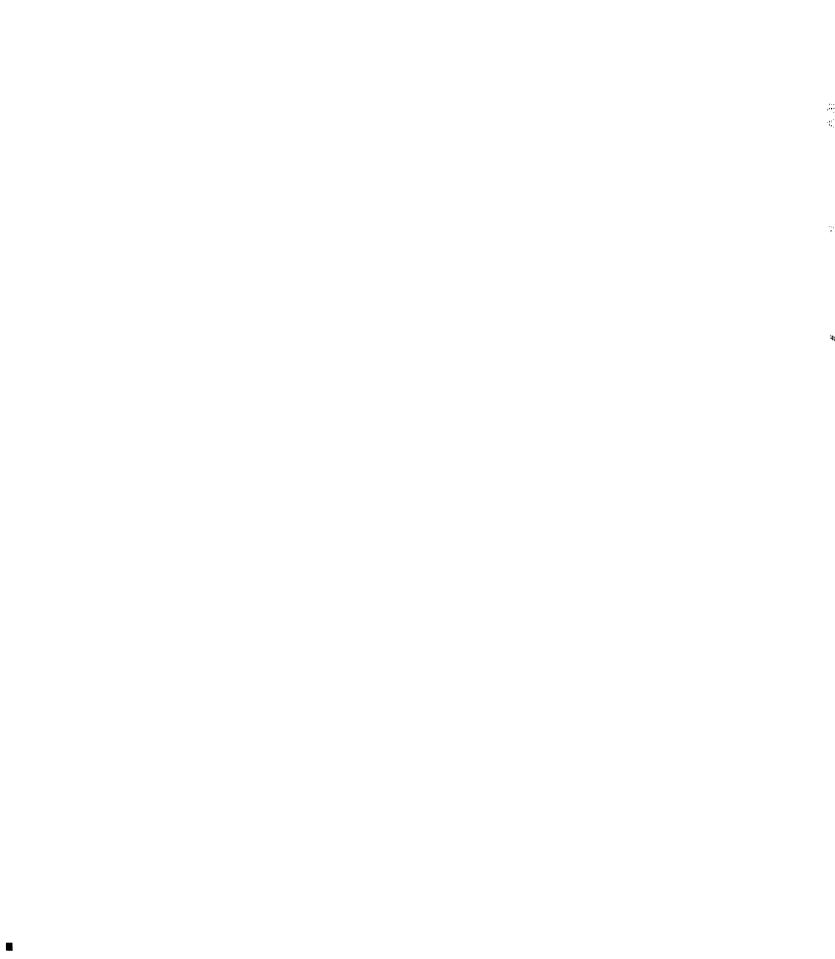


*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 14

PATTERN	NCTES	RELATED TO	NOTES	TEST	L ENG TH
1	1 TO	4	7 TO 10	14	3
2	3 TO	5	9 TO 11	14	3
3	3 TO	5	21 TO 23	14	3
4	1 TO	5	7 TO 11	14	4

END OF TYPE I LISTING. TOTAL OF 4 PATTERNS LOCATED.



APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 14
EXACT RHYTHM WITH EXACT INVERSIGN

	LOCATIO OF FIRS OCCURREN	S T	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CR I GINAL PATTERN	1 TO	5	2	4	

** TEST 14 COMPLETED AT 74 SECONDS INTO EXECUTION ****

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******* MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 15

TEST REQUESTED 15 UNITS OF DATA PER CARD 16

COMPUTER REFERENCE NUMBER ASSIGNMENT

NO TES 1 THROUGH 16 60 59 57 0 59 0 57 0 57 0 59 0 61 0

NOTES 17 THROUGH 32 59 61 59 0 61 0 62 0 57 0 59 0 57 0 59 60

NO TES 33 THROUGH 33

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW +-

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

LISTING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



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	11;
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*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 15

PATTERN	NCTES	,	RELATED TO	NOTES		TEST	LENGTH
1	2 T O	5		10 TO	13	15	3
2	2 TO	5		18 TO	21	15	3
3	3 TO	7		21 TO	25	15	3
4	3 10	7		25 TO	29	15	3
• • • FCR	10 TO	13.	SE E	2 TO	5	ABOVE ***	*
*** FOR	18 TO	21.	SEE	2 TO	5	ABOVE ***	*
	21 TO	25.	SEE	3 TO	7	ABOVE ***	*
** * FCR	25 TO	29.	SEE	3 TO	7	ABOVE ***	*
5	1 70	7		9 TO	15	15	5
6	1 TO	7		17 TO	23	15	5

END OF TYPE I LISTING. TOTAL OF 6 PATTERNS LOCATED.

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*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 15 EXACT RHYTHM WITH TONAL RETROGRADE

	LOCATI OF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	1 TO	7	3	5	

*** TEST 15 COMPLETED AT 117 SECONDS INTO EXECUTION ****

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 16

TEST REQUESTED 16 UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NCTES 1 THROUGH 16 60 59 57 0 59 0 57 0 57 59 57 0 59 0 61 0

NOTES 17 THROUGH 32 59 61 59 0 61 0 62 0 57 0 59 0 57 0 59 60

NOTES 33 THROUGH 33

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

LISTING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 16

PATTERN	NCTE	S RE	LATED TO	NOTES	•	TEST	LENGTH
1	2 TO	5		10 TO	13	16	3
2	2 TO	5		18 TO	21	16	3
3	3 TO	7		25 TO	29	16	3
*** FOR	10 TO	13.	SEE	2 TO	5	ABOVE ***	r. k
*** FCR	18 TO	21.	SEE	2 TO	5	ABOVE ***	**
** ** FOR	25 TC	29.	SEE	3 TO	7	ABOVE ***	r#
4	1 TO	7		17 TO	23	16	5

END OF TYPE I LISTING. TOTAL OF 4 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 16 EXACT RHYTHM WITH EXACT RETROGRADE

	LOCATIO OF FIR: OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CR I GINAL PATTERN	1 TO	7	2	5	

*** TEST 16 COMPLETED AT 115 SECONDS INTO EXECUTION ****

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******* MUSIC MELODIC PATTERN ANALYSIS **********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 17

TEST REQUESTED 17
UNITS OF DATA PER CARD 10

COMPUTER REFERENCE NUMBER ASSIGNMENT

NCTES 1 THROUGH 16 55 0 57 57 62 0 61 0 57 0 56 61 61 0 63 0

NC TES 17 THROUGH 32 59 58 63 63 65 0 66 0 55 0 54 58 58 0 59 0

NO TES 33 THROUGH 33

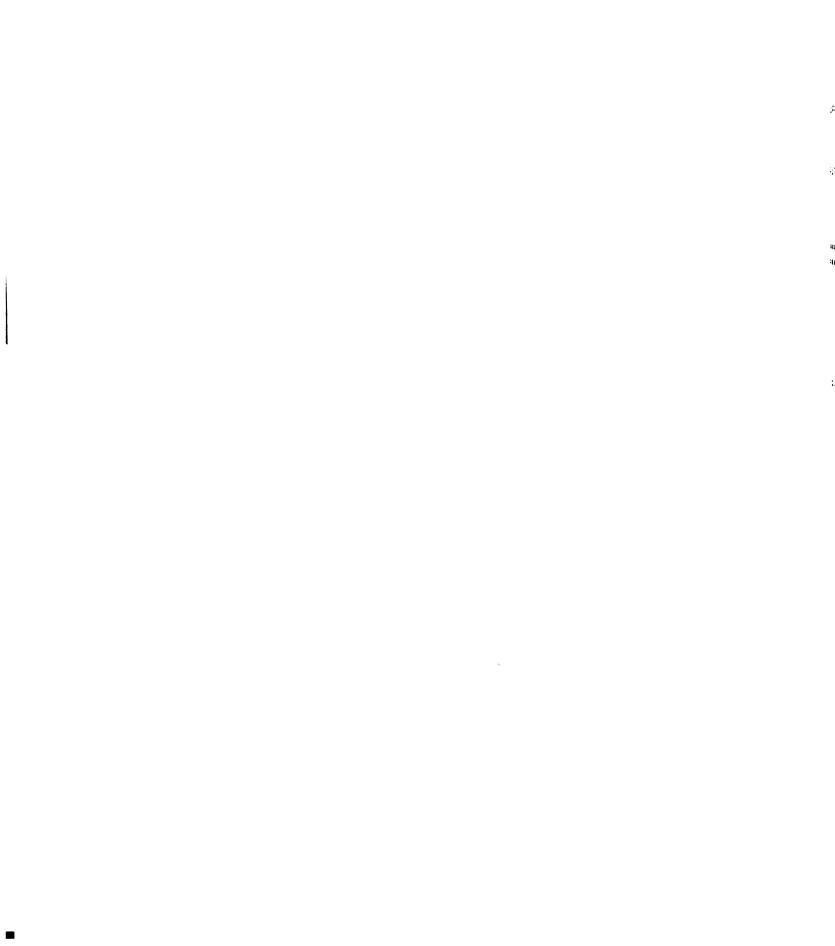
THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

LISTING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.





*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 17

PATTERN	NCTE	S RE	LATED TO	١	NOTE:	S	TEST	LENGTH
1	3 TO	5		11	TO	13	17	3
2	3 TO	5		27	TO	29	17	3
**** FOR	19 TO	21.	SEE	3	TO	5	ABOVE **	**
* *** FOR	25 TO	28.	SEF	9	TO	12	ABOVE **	**
3	7 TO	12		13	TO	18	17	4
4	1 TO	7		9	TO	15	17	5
5	1 TO	7		25	TO	31	17	5

END OF TYPE I LISTING. TOTAL OF 5 PATTERNS LOCATED.

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 17 EXACT RHYTHM WITH TONAL RET. INVERSION

		LOCATION OF FIRST OCCURRENCE		TOTAL NUMBER OF Occurrences	LENGTH OF Pattern	
CRIGINAL	PATTERN	1 TO	7	3	5	

**** TEST 17 COMPLETED AT 139 SECONDS INTO EXECUTION ****

****** MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 18

TEST REQUESTED 18
UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16 55 0 57 57 62 0 61 0 57 0 56 61 61 0 63 0

NCTES 17 THROUGH 32 59 58 63 63 65 0 66 0 50 0 54 58 58 0 59 0

NOTES 33 THROUGH 33

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

LISTING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 18

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1 2	3 TO	5	11 TO 13	18	3
	1 TO	7	9 TO 15	18	5

END OF TYPE I LISTING. TOTAL OF 2 PATTERNS LOCATED.

4PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 18
EXACT RHYTHM WITH EXACT RET. INVERSION

	LOCATI CF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	1 TO	7	2	5	

**** TEST 18 COMPLETED AT 120 SECONDS INTO EXECUTION ****

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******** MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 19

TEST REQUESTED 19
UNITS OF DATA PER CARD 16

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16
57 0 0 0 0 55 0 54 55 57 0 55 0 54 52

NOTES 17 THROUGH 32
62 0 0 0 0 0 60 0 5 61 62 0 61 0 59 57

NCTES 33 THROUGH 48
59 57 56 0 57 0 59 57 55 0 54 0 0 0 0 0

NOTES 49 THROUGH 64
55 53 52 0 54 0 55 53 52 0 50 0 0 0 0

NOTES 65 THROUGH 65

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

*SYM * DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATE MENTS.



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*** TYPE I LISTING ***

4PFENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 19

PATTERN	NCTES	F	RELATED TO	١	NOTES		TEST (ENG TH
1 2	7 TG	11	(SYM)	23	TO	27	19	4
	9 TO	13		35	TO	40	19	4
3	9 TO	13		51	TO	56	19	4
4	10 TO	15	(SYM)	26	TO	31	19	4
5	15 TO	23		41	TO	50	19	4
**** FOR	23 TO	27•	SEE	7	TO	11	ABOVE ***	k
**** FOR	26 TO	31.	SEE	10	TO	15	ABOVE ****	R
**** FOR	35 TO	40.	SEE	9	TO	13	ABOVE ***	ķ
**** FOR	41 TO	50.	SEE	15	TO	23	ABOVE ****	k
6	7 TO	15		34	TO	41	19	6
7	7 TO	15		50	TO	57	19	6
8	9 TO	16	(SYM)	25	TO	32	19	6
9	13 TO	25		40	TO	51	19	6
10	13 TO	25		40	TO	51	19	6
**** FOR	25 TO	32,	SEE	9	TO	16	ABOVE ***	ķ
*** FCR	34 TO	41.	SEE	7	TO	15	ABOVE ***	k
*** FOR	40 TO	51.	SEE	13	TO	25	ABOVE ***	k
11	1 TO	16		33	TO	43	19	8
12	1 TO	16		49	TO	59	19	8
13	11 TO	26		39	TO	53	19	8
14	11 TO	26		39	TO	53	19	8
15	10 TO	27		37	TO	55	19	10
16	9 TO	29		35	TO	56	19	12
17	7 TO	31		34	TO	57	19	14
18	1 10	32		33	TO	59	19	16

FAC OF TYPE I LISTING. TOTAL OF 18 PATTERNS LOCATED.

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APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 19
RHYTHM RETROGRADE W.TONAL CONTOUR (ORIGINAL)

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	1 TO 32	2	16	

**** TEST 19 COMPLETED AT 372 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 20
TEST REQUESTED 20
UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16 **57 0 0 0 0 0 55 0 54 55 57 0 55 0 54 52** NOTES 17 THROUGH 32 62 0 0 0 0 0 60 0 59 61 62 J 61 0 59 57 NOTES 33 THROUGH 48 **59 57 56 0 57 0 59 57 55 0 54** 0 NOTES 49 THROUGH 64 **55 53 52 0 54 0 55 53 52 0 50 0** NCTES 65 THROUGH 65 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

'SYM DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



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*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 20

PATTERN	•	CTES	S REL	ATED TO	ľ	NOTES	5	TEST	LENGTH
1	9	TO	13		35	T O	40	20	4
**** FOR	35	TO	40.	SEE	9	TO	13	ABOVE ***	*
2	7	TO	15		34	TO	41	20	6
**** FOR	34	TC	41.	SEE	7	TO	15	ABOVE ***	*
3	1	TO	16		33	TO	43	20	8

END OF TYPE I LISTING. TOTAL OF 3 PATTERNS LOCATED.

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A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 20 RHYTHM RETROGRADE W.EXACT CONTOUR (ORIGINAL)

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	1 TO 16	2	8	

◆ ◆ * TEST 20 COMPLETED AT 172 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANA_YSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 21

TEST REQUESTED 21 UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16 62 0 0 62 67 0 65 62 64 61 62 0 64 0 64 55

NOTES 17 THROUGH 32 57 60 59 0 64 62 0 0 62 57 59 0 62 60

OTES 33 THROUGH 48
63 0 0 62 60 0 60 55 57 60 58 0 61 60 0 0

NOTES 49 THROUGH 49 -99

FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITER-IIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

SYM DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

STING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 21

PATTERN	NCTES	5	RELATED TC	NOTES		TEST	LENGTH
1	4 TO	7	(SYM)	18 TO	21	21	3
2	4 TO	7	(SYM)	42 TO	45	21	3
**** FCR	15 TO	17.	SEE	7 TO	9	ABOVE ***	k
**** FCR	39 TO	41.	SEE	7 TO	9	ABOVE ***	k
3	4 TO	8		27 TO	31	21	4
4	5 TO	9		16 TO	19	21	4
5	5 TO	9		40 TO	43	21	4
6	4 10	10		15 TO	21	21	6
7	4 TO	10		39 TO	45	21	6
8	l TO	11		13 TO	22	21	8
9	1 TO	11		37 TO	46	21	8

END OF TYPE I LISTING. TOTAL OF 9 PATTERNS LOCATED.

A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 21 RHYTHM RETROGRADE W.TONAL INVERSION

		LOCATI OF FIR		TOTAL Number of	LENGTH OF
		OCCURRE	. • .	OCCURRENCES	PATTERN
GRIGINAL	PATTERN	1 TC	11	3	8

≠ ++ TEST 21 COMPLETED AT 223 SECONDS INTO EXECUTION ****

★★★★★★★★★★ MUSIC MELODIC PAITERN ANALYSIS **********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 22

TEST REQUESTED 22 UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16
62 0 0 62 67 0 65 62 6+ 61 62 0 64 0 64 55

NOTES 17 THROUGH 32 57 60 59 0 64 62 0 0 62 57 59 0 62 60

NOTES 33 THROUGH 48
63 0 0 62 60 0 60 55 57 60 58 0 61 60 0 0

NOTES 49 THROUGH 49 -99

FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

SYM DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

STING MAY INCLUDE SOME CROSS-REFERENCES TO STATEMENTS NOT PREVIOUSLY SHOWN. IGNORE THESE CROSS-REFERENCE STATEMENTS.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 22

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
1	4 TO	8	27 TO 31	22	4
2	5 TO	9	40 TO 43	22	4
3	4 TO	10	39 TO 45	22	6
4	1 TO	11	37 TO 46	22	8

END OF TYPE I LISTING. TOTAL OF 4 PATTERNS LOCATED.

*** TYPE II LISTING ***

A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 22 REYTHM RETROGRADE W.EXACT INVERSION

	LOCATION	TOTAL	LENGTH
	OF FIRST	NUMBER OF	OF
	OCCURRENCE	OCCURRENCES	Pattern
ORIGINAL PATTER	1 TO 11	2	8

**** TEST 22 COMPLETED AT 215 SECONDS INTO EXECUTION ****

111 ... • ★ ******** MUSIC MELODIC PALTERN ANALYSIS *********

A PPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 23

TEST REQUESTED 23
UNITS OF DATA PER CARD 16

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16
57 59 67 0 66 61 62 0 62 0 0 60 62 0 0

NOTES 17 THROUGH 32
62 0 57 66 67 0 62 61 57 0 59 59 58 63 64 0

NOTES 33 THROUGH 48
56 0 0 54 55 57 0 0 57 0 56 61 62 0 54 52

NOTES 49 THROUGH 49

FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

S YM. DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 23

1 2 TO 5 (SYM) 20 TO 23 23 3 3 5 TO 7 17 17 TO 20 23 3 3 5 TO 7 17 17 TO 20 23 3 4 5 TO 7 41 TO 44 23 3 5 6 TO 9 14 TO 19 23 3 6 6 TO 9 38 TO 43 23 3 7 7 7 TO 12 13 TO 17 23 3 8 7 TO 12 37 TO 41 23 3 **** FOR 20 TO 23, SEE 2 TO 5 ABOVE **** 10 1 TO 5 44 TO 48 23 4 11 2 TO 6 19 TO 24 23 4 11 2 TO 6 19 TO 24 23 4 11 3 3 TO 7 (SYM) 17 TO 21 23 4 11 2 TO 6 19 TO 47 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 15 5 TO 9 14 TO 25 23 4 15 5 TO 9 14 TO 25 23 4 17 6 TO 12 37 TO 42 23 4 18 6 TO 12 37 TO 43 23 4 19 10 10 10 23 25 4 20 TO 24 25 3 5 21 2 TO 7 41 TO 20 23 5 22 2 TO 7 41 TO 23 23 5 23 3 TO 9 14 TO 21 23 5 24 3 5 5 TO 12 37 TO 44 23 5 25 5 TO 12 37 TO 44 23 5 26 3 TO 9 38 TO 45 23 5 27 2 TO 7 41 TO 21 23 5 28 3 TO 9 38 TO 45 23 5 29 2 TO 7 41 TO 21 23 5 20 1 TO 6 (SYM) 19 TO 24 23 5 20 1 TO 6 (SYM) 19 TO 24 23 5 21 2 TO 7 41 TO 20 23 5 22 3 TO 9 38 TO 48 23 5 23 3 TO 9 38 TO 45 23 5 24 3 TO 9 38 TO 46 23 5 25 5 TO 12 37 TO 44 23 5 26 3 TO 12 37 TO 44 23 5 27 2 TO 7 41 TO 21 23 5 28 3 TO 9 38 TO 45 23 6 37 TO 44 23 5 38 TO 45 23 6 39 3 TO 12 37 TO 44 23 5 30 31 TO 9 38 TO 45 23 6 31 TO 9 38 TO 45 23 6 31 TO 9 38 TO 45 23 6 32 3 TO 12 37 TO 44 23 7 36 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 32 3 TO 12 37 TO 44 23 7 36 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 32 3 TO 12 37 TO 45 23 7 36 37 TO 47 23 7 38 TO 47 23 7 39 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 32 3 TO 12 37 TO 45 23 7 36 37 TO 48 23 8	PATTER	N I	NCTES	1	RELATED TO	٨	IOTES		TEST (LENGTH
**** FOR 20 TO 12										3
**** FOR 20 TO 12				5	(SYM)					3
**** FOR 20 TO 12						_				3
**** FOR 20 TO 12										3
**** FOR 20 TO 12										3
**** FOR 20 TO 12										3
9 1 TO 5 20 TO 24 23 4 10 1 TO 5 44 TO 48 23 4 11 2 TO 6 19 TO 23 23 4 11 2 TO 6 19 TO 21 23 4 11 3 3 TO 7 (SYM) 17 TO 21 23 4 11 5 5 TO 9 14 TO 20 23 4 11 6 5 TO 9 38 TO 44 23 4 11 8 6 TO 12 37 TO 43 23 4 11 9 TO 23 23 4 12 1 8 6 TO 12 37 TO 43 23 5 20 1 TO 6 (SYM) 19 TO 24 23 5 21 2 TO 7 41 TO 23 23 5 21 2 TO 7 41 TO 21 23 5 22 2 TO 7 41 TO 23 5 23 3 TO 9 38 TO 44 23 5 23 3 TO 9 38 TO 48 23 5 24 2 2 TO 7 41 TO 23 23 5 25 5 TO 12 37 TO 44 23 5 26 3 TO 12 37 TO 44 23 5 27 1 TO 7 41 TO 21 23 5 28 1 TO 7 41 TO 23 23 5 29 2 TO 9 38 TO 45 23 5 20 3 TO 24 SEF 1 TO 6 ABOVE **** 29 3 TO 44 23 5 20 3 TO 24 SEF 1 TO 6 ABOVE **** 20 3 TO 24 SEF 1 TO 6 ABOVE **** 21 3 TO 9 38 TO 45 23 5 22 2 TO 7 41 TO 21 23 5 23 3 TO 9 38 TO 45 23 5 24 3 TO 9 38 TO 45 23 5 25 5 TO 12 37 TO 44 23 5 27 1 TO 7 41 TO 24 23 6 30 2 TO 9 14 TO 24 23 6 31 3 TO 12 37 TO 44 23 5 32 3 TO 12 37 TO 44 23 6 33 3 TO 12 37 TO 44 23 6 34 3 TO 12 37 TO 45 23 6 35 3 TO 12 37 TO 45 23 6 36 37 37 TO 45 23 7 36 37 TO 47 23 7 37 TO 49 38 TO 47 23 6 38 TO 47 23 7 39 38 TO 47 23 7 30 31 31 TO 9 38 TO 47 23 6 31 31 31 TO 9 38 TO 47 23 6 32 37 TO 44 23 7 34 37 TO 44 70 23 7 36 37 TO 47 23 7 38 TO 47 23 7 39 38 TO 47 23 7 30 31 TO 9 38 TO 48 23 7 31 TO 9 38 TO 47 23 7 32 TO 12 13 TO 24 23 7 33 TO 12 13 TO 24 23 7 34 TO 47 23 7 37 TO 47		•								2
9 1 TO 5 20 TO 24 23 4 10 1 TO 5 44 TO 48 23 4 11 2 TO 6 19 TO 23 23 4 12 2 TO 6 43 TO 47 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 14 3 TO 7 (SYM) 41 TO 45 23 4 15 5 TO 9 14 TO 20 23 4 16 5 TO 9 38 TO 44 23 4 17 6 TO 12 13 TO 19 23 4 18 6 TO 12 37 TO 43 23 4 19 TO 24 23 5 10 6 ABOVE **** FOR 19 TO 23 SEE 1 TO 5 ABOVE **** FOR 20 TO 24 SEE 2 TO 6 ABOVE **** 20 1 TO 6 (SYM) 19 TO 24 23 5 21 2 TO 7 41 TO 21 23 5 22 2 TO 7 41 TO 21 23 5 23 3 TO 9 38 TO 44 23 5 23 3 TO 9 38 TO 48 23 5 24 3 TO 9 38 TO 49 23 5 25 5 TO 12 37 TO 44 23 5 27 1 TO 7 41 TO 21 23 5 28 1 TO 7 41 TO 21 23 5 29 3 TO 9 38 TO 44 23 5 20 1 TO 6 (SYM) 43 TO 48 23 5 21 2 TO 7 41 TO 21 23 5 22 2 TO 7 41 TO 21 23 5 23 3 TO 9 38 TO 45 23 5 24 3 TO 9 38 TO 44 23 6 25 5 TO 12 37 TO 44 23 5 26 3 TO 9 38 TO 47 23 5 37 TO 44 23 6 31 TO 7 41 TO 24 23 6 31 TO 7 41 TO 24 23 6 32 3 TO 9 38 TO 47 23 6 33 TO 9 38 TO 47 23 6 34 1 TO 7 41 TO 24 23 6 35 1 TO 7 41 TO 24 23 6 36 31 3 TO 12 37 TO 24 23 6 37 TO 45 23 6 38 TO 47 23 7 39 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 32 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 32 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 32 TO 12 37 TO 45 23 6 31 TO 9 38 TO 47 23 7 32 TO 12 37 TO 45 23 6 33 TO 12 37 TO 45 23 6 34 TO 45 23 7 35 2 TO 12 37 TO 45 23 7 36 37 TO 47 23 7 37 TO 47 23 7 37 TO 47 23 7 38 TO 47 23 7 39 38 TO 47 23 7 30 31 TO 9 38 TO 48 23 7 31 TO 9 38 TO 47 23 7 31 TO 40 40 40 40 40 40 40 40 40 40 40 40 40		•			cc c					
10 1 TO 5 44 TO 48 23 4 11 2 TO 6 19 TO 23 23 4 12 2 TO 6 43 TO 47 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 14 3 TO 7 (SYM) 41 TO 45 23 4 15 5 TO 9 14 TO 20 23 4 16 5 TO 9 38 TO 44 23 4 17 6 TO 12 13 TO 19 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 5 17 6 TO 24 SEE 1 TO 5 ABOVE **** **** FOR 20 TO 24 SEE 2 TO 6 ABOVE **** 20 1 TO 6 (SYM) 19 TO 24 23 5 21 2 TO 7 41 TO 21 23 5 22 2 TO 7 41 TO 21 23 5 23 3 TO 9 38 TO 45 23 5 5 TO 12 37 TO 42 23 5 5 TO 12 37 TO 42 23 5 23 3 TO 9 38 TO 45 23 5 5 TO 12 37 TO 44 23 5 23 3 TO 9 38 TO 45 23 5 5 TO 12 37 TO 44 23 5 23 3 TO 9 38 TO 45 23 5 31 TO 7 41 TO 24 23 6 32 3 TO 9 38 TO 45 23 5 33 TO 9 38 TO 47 23 6 34 1 TO 7 41 TO 24 23 6 35 37 TO 44 23 6 36 37 TO 44 23 7 37 TO 45 23 6 37 TO 45 23 7 36 37 TO 45 23 7 37 TO 45 23 7 38 TO 47 23 6 37 TO 45 23 7 38 TO 47 23 6 37 TO 45 23 7 38 TO 47 23 7 39 38 TO 47 23 7 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 7 36 2 TO 12 37 TO 45 23 7 36 2 TO 12 37 TO 47 23 7 37 TO 45 23 7 38 TO 47 23 7 39 38 TO 47 23 7 30 38 TO 47 23 7 31 TO 9 38 TO 48 23 7 31 TO 9 38 TO 47 23 7					3E.E					
11 2 TO 6 43 TO 47 23 4 12 2 TO 6 43 TO 47 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 14 3 TO 7 (SYM) 41 TO 45 23 4 15 5 TO 9 14 TO 20 23 4 16 5 TO 9 38 TO 44 23 4 17 6 TO 12 13 TO 19 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 5 18 6 TO 10 24 SEE 1 TO 5 ABOVE **** **** FOR 19 TO 23. SEE 1 TO 6 ABOVE **** 19 1 TO 6 (SYM) 19 TO 24 23 5 20 1 TO 6 (SYM) 43 TO 48 23 5 21 2 TO 7 41 TO 23 23 5 22 2 TO 7 41 TO 23 23 5 23 3 TO 9 38 TO 44 23 5 24 3 TO 9 38 TO 45 23 5 5 TO 12 13 TO 20 23 5 25 5 TO 12 13 TO 20 23 5 26 5 TO 12 37 TO 44 23 5 27 1 TO 7 41 TO 48 23 5 28 1 TO 7 41 TO 48 23 5 29 2 TO 9 38 TO 45 23 5 31 TO 9 38 TO 44 23 6 29 2 TO 9 14 TO 23 23 6 31 TO 7 41 TO 24 23 6 32 3 TO 12 37 TO 44 23 6 32 3 TO 12 37 TO 45 23 6 33 TO 12 37 TO 45 23 6 34 3 TO 12 37 TO 45 23 6 35 37 TO 45 23 7 36 37 TO 45 23 7 36 37 TO 47 23 7 37 TO 48 23 7 38 TO 47 23 7 39 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 31 TO 9 38 TO 47 23 7 32 37 TO 45 23 7 34 1 TO 9 38 TO 47 23 7 36 37 TO 47 23 7 37 TO 47 23 7 37 TO 47 23 7 38 TO 47 23 7 39 38 TO 47 23 7 30 38 TO 47 23 7 31 TO 9 38 TO 4		_								
12 2 10 6 43 TO 47 23 4 13 3 TO 7 (SYM) 17 TO 21 23 4 14 17 0 20 23 4 15 5 TO 9 14 TO 20 23 4 16 5 TO 9 38 TO 44 23 4 17 6 TO 12 13 TO 19 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 4 18 6 TO 12 37 TO 43 23 5 17 6 TO 24 SEE 1 TO 5 ABOVE **** **** FOR 20 TO 24. SEE 2 TO 6 ABOVE **** 20 1 TO 6 (SYM) 19 TO 24 23 5 21 2 TO 7 17 TO 24 23 5 21 2 TO 7 41 TO 21 23 5 23 3 TO 9 38 TO 45 23 5 23 3 TO 9 38 TO 45 23 5 24 3 TO 9 38 TO 45 23 5 25 5 TO 12 37 TO 44 23 5 26 5 TO 12 37 TO 44 23 5 27 1 TO 7 41 TO 24 23 5 28 1 TO 7 41 TO 48 23 6 29 2 TO 9 38 TO 45 23 6 30 2 TO 9 38 TO 45 23 6 31 3 TO 12 37 TO 44 23 6 32 3 TO 12 37 TO 44 23 6 33 TO 9 38 TO 45 23 6 34 TO 45 23 6 35 TO 12 37 TO 45 23 6 36 37 TO 45 23 6 37 TO 45 23 7 38 TO 47 23 6 39 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 31 TO 9 38 TO 47 23 6 32 3 TO 12 37 TO 45 23 6 33 TO 12 37 TO 45 23 7 36 1 TO 9 38 TO 48 23 7 36 2 TO 12 37 TO 45 23 7 36 2 TO 12 37 TO 47 23 7 38 TO 47 23 7 37 TO 47 23 7 38 TO 47 23 8		_								
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1 TO 12 13 TO 24 23 8										
1 10 12	2 <i>B</i>	ī	TO	12		37	TO	48	23	8

PATTERN NCTES RELATED TO NOTES TEST LENGTH

ENC OF TYPE I LISTING. TOTAL OF 38 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 23 RHYTHM RETROGRADE W.TONAL RETROGRADE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL PATTERN	1 TO 12	3	8

*** TEST 23 COMPLETED AT 146 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 24

TEST REQUESTED 24
UNITS OF DATA PER CARD 46

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THROUGH 16
57 59 67 0 66 61 62 0 62 0 0 60 60 62 0 0

NOTES 17 THROUGH 32
62 0 57 66 67 62 61 0 57 0 59 59 58 63 64 0

NOTES 33 THROUGH 48
56 0 0 54 55 57 0 0 57 0 56 61 62 0 54 52

NOTES 49 THROUGH 49

FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

'SY - DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 24

PATTERN	NCTES		RELATED TO	NOTES	S	TEST	LENGTH
1	1 TO	3		45 TO	48	24	3
2	2 TO	5	(SYM)	44 TO	47	24	3
3	3 TO	6		29 TO	31	24	3
4	3 TO	6		43 TO	45	24	3
5	5 TO	7		41 TO	44	24	3
6	6 TO	9		38 TO	43	24	3 3 3 3 3
7	7 10	12		13 TO	17	24	3
8	7 TO	12		37 TO	41	24	3
9	1 TO	5		44 TO	48	24	4
10	2 TO	6		43 TO	47	24	4
11	3 TO	7	(SYM)	41 TO	45	24	4
12	5 TO	9		38 TO	44	24	4
13	6 TO	12		37 TO	43	24	4
14	1 TO	6	(SYM)	43 TO	48	24	5
15	2 TO	7		41 TO	47	24	5
16	3 TO	9		38 TO	45	24	5
17	5 TO	12		37 TO	44	24	5
18	1 TO	7		41 TO	48	24	6
19	2 T O	9		38 TO	47	24	6
20	3 TO	12		37 TO	45	24	6
21	1 TO	9		38 TO	48	24	7
22	2 TO	12		37 TO	47	24	7
23	1 TO	12		37 TO	48	24	8

CF TYPE I LISTING. TOTAL OF 23 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 24 RHYTHM RETROGRADE W.EXACT RETROGRADE

		LOCATI OF FIR OCCURRE	ST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL	PATTERN	1 TO	12	2	8

◆◆◆ TEST 24 COMPLETED AT 140 SECONDS INTO EXECUTION ****

********* MUSIC MELODIC PATTERN ANALYSIS *********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 25

TEST REQUESTED 25 UNITS OF DATA PER CARD 12

COMPUTER REFERENCE NUMBER ASSIGNMENT

1 THROUGH NOTES 12 0 59 57 57 55 62 54 64 62 NOTES 13 THROUGH 24 0 59 54 64 62 59 62 61 64 0 NOTES 25 THROUGH 36 62 62 60 69 67 67 65 70 NOTES 37 THROUGH 0 59 57 66 64 62 67 59 6+ NOTES 49 THROUGH 49 -99

FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED
FOR OM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-DF-DIRECTION

'SY - DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 25

PATTERN	NOTES	F	RELATED TO	NOTES	5	TEST	LENGTH
1	1 TO	5		20 TO	22	25	3
2	1 TO	5		44 TO	46	25	3
3	4 TO	6	(SYM)	19 TO	21	25	3
4	4 TO	6	(SYM)	25 TO	27	25	3
5	4 TO	6	(SYM)	43 TO	45	25	3
6	5 10	7		17 TO	20	25	3
7	5 TO	7		41 TO	44	25	3 3
8	6 TO	9	(SYM)	16 TO	19	25	3
9	6 TO	9	(SYM)	40 TO	43	25	3 3
10	7 10	10		15 TO	17	25	
11	7 10	10		39 TO	41	25	3
12	9 10	11		13 70	16	25	3
13	9 TO	11	4 = 4 4	37 TO	40	25	3
14	19 TO	21	(SYM)	28 TO	30	25	3
15	22 TO	26		29 TO	31	25	3
*** → FOR	25 TO	27.	SEE	19 TO	21	ABOVE ***	-
*** FOR	28 TO	30.	SEE	4 TO	6	ABOVE ***	
16	1 10	6		19 TO	22	25 25	4
17	1 TO	6		43 TO	46	25 25	4
1.8	4 TO	7		17 TO	21	2 5	4
19	4 TO	7		41 TO	45	25 25	4
20	5 TO	9		16 TO	20	25 25	4
21	5 TO	9		40 TO	44	25 25	4
22	6 TO	10		15 TO	19	25 25	4
23	6 10	10	4.63443	39 TO	43	25 25	4
24	7 10	11	(SYM)	13 TO	17	25 25	4
25	7 10	11	(SYM)	37 TO	41	25 25	4
26 27	22 10	27		28 TO 17 TO	31	25 25	5
28	1 TO	7		17 TO 41 TO	22 46	25 25	5
29	1 TO	7		16 TO	21	25	5
30	4 TO	9 9		40 TO	45	25 25	5
3 1	4 TO 5 TO	10	(SYM)	15 TO	20	25	5
3 2	5 TO	10	(SYM)	39 TO	44	25	5
3 3	6 TO	11	(317)	13 TO	19	25	5
3 3 3	6 TO	11		37 TO	43	25	5
35	1 70	9		16 TO	22	25	6
36	1 10	ģ		40 TO	46	25	6
37	4 10	10		15 TO	21	25	6
38	4 TO	10		39 TO	45	25	6
3 9	5 TO	ii		13 TO	20	25	6
40	5 TO	11		37 TO	44	25	6
41	1 10	10		15 TO	22	25	7
42	i TO	10		39 TO	46	25	7
43	4 TO	11		13 TO	21	25	7

PATTERN	NOTES	RELATED 1	TO NOTES	TEST	LENGTH
44	4 TO	11	37 TO 45	25	7
45	1 TO	11	13 TO 22	25	8
46	1 TG	11	37 TO 46	25	8

END OF TYPE I LISTING. TOTAL OF 46 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 25 RHYTHM RETROGRADE W.TONAL RET. INVERSION

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
OR IGINAL PATTERN	1 TO 11	3	8

*** TEST 25 COMPLETED AT 148 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS ********

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 26

TEST REQUESTED 26
UNITS OF DATA PER CARD 42

COMPUTER REFERENCE NUMBER ASSIGNMENT

NO TES 1 THROUGH 12 0 59 57 57 54 55 64 62 62 NO TES 13 THROUGH 24 59 0 59 54 64 62 62 61 64 0 0 NOTES 25 THROUGH 36 62 62 60 69 67 67 65 0 70 0 0 NOTES 37 THROUGH 48 59 0 59 57 66 64 64 62 67 0 ٥ NOTES 49 THROUGH -99

FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED

RCM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

'SYMP DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.



*** TYPE I LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 26

PATTERN	N	IOTES	F	RELATED TO	NC	TES	TEST	LENGTH
1	1	TO	5		44 T	0 46	26	2
2	4	TO	6	(SYM)		0 27	26	3 3
3	7	TO	6	(SYM)		0 45	26	3
4	5	TO	7	(SIM)		0 20	26	3
5	5	TO	7		-	0 44	26	
6	6	TO	9	(SYM)		0 43	26	3
7	7	TO	10	(317)		0 41	26	2
8	9	TO	11			0 40	26	3 3 3 3 3
9	22	TO	26			0 31	26	3
10	25	TO	27	(SYM)		0 30	26	3
** * FOR		TO	30.	SEE		0 6	ABOVE **	
11	1	TO	6	JEE		0 46	26	4
12	4	TO	7			0 45	26	4
13	5	TO	9			0 44	26	4
14	_	TO	10			0 43	26	4
15	7	TO	11	(SYM)		0 41	26	4
16	•	TO	27	(3)117		0 31	26	4
17	1	TO	7			0 46	26	5
18	4	TO	9		_	0 45	26	5
19	-	TO	10	(SYM)	_	0 44	26	5
Zó	_	TO	11	(5,1,1,		0 43	26	5
21		TO	9			0 46	26	6
22	- 4	TO	10			0 45	26	6
23	5	TO	11			0 44	26	6
24	ĩ	TO	10			0 46	26	7
25	-	TO	11			0 45	26	7
26	i	TO	ii		37 T		26	8
	_							-

E DO OF TYPE I LISTING. TOTAL OF 26 PATTERNS LOCATED.

*** TYPE II LISTING ***

APPENDIX A ANALYSIS OF MUSIC EXCERPT ILLUSTRATING TEST 26 RHYTHM RETRCGRADE W.EXACT RET. INVERSION

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
OR IGINAL PATTERN	1 TO 11	2	8

*** TEST 26 COMPLETED AT 142 SECONDS INTO EXECUTION ****

APPENDIX B

Computer Output for Analyses of Works by Varese, Dunstable, and Hindemith

As was stated earlier in the thesis, each pattern-statement

shown in this Appendix designates two specific melodic excerpts

That ch display a previously defined musical relationship. Each

statement describes a specific musical relationship; the statements

The not intended to provide the reader with any type of collective

summary of the music excerpt under analysis.

The reader must refer to the appropriate musical score

Luded with this Appendix when using the different pattern

Lists; the lists cannot be used effectively without reference

to the associated score. The reader may wish to review pp. 70

79 before examining this Appendix.

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Test 5	333
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Test 13	536
Musical score with computer-assigned reference	
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Analyses of "Fuga nona in B-flat" from <u>Ludis Tonalis</u> by Paul Hindemith	
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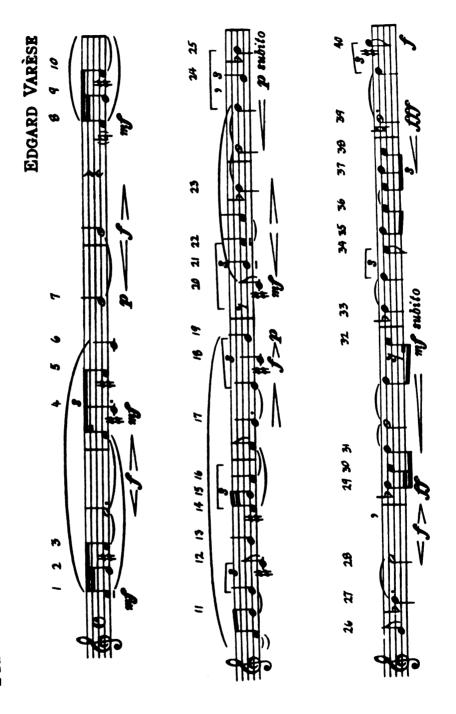
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Test	2,	bottom-sounding	voice	only	•	•	•	•	•	•	•	•	•	•	•	•	•	•	597
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Test	14,	bottom-sounding	voice	only	7.	•	•	•	•	•	•	•	•	•	•	•	•	•	701
Test	24,	bottom-sounding	voice	only	7.	•	•	•	•	•	•	•	•	•	•		•	•	729
Test	26,	bottom-sounding	voice	only	7.				•										747

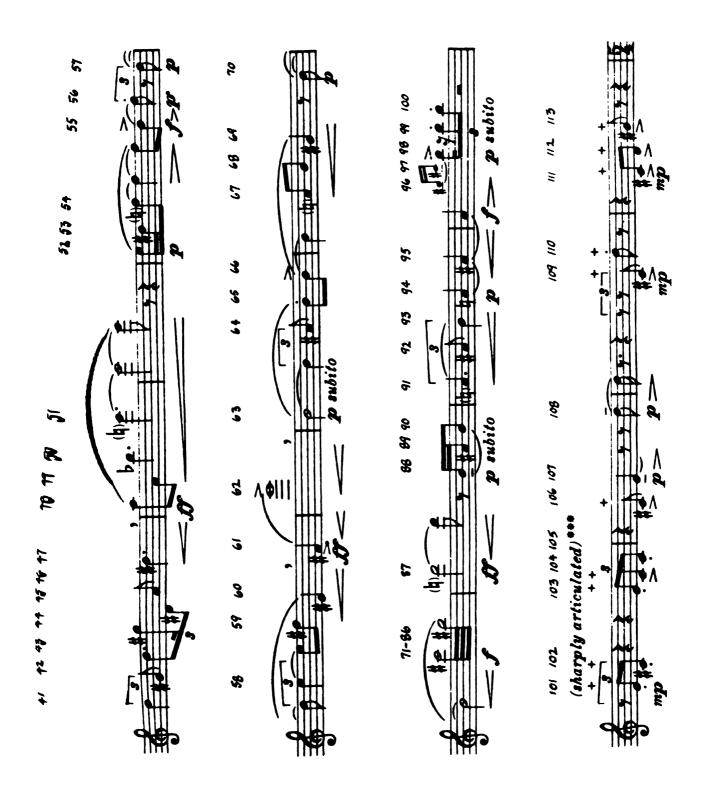
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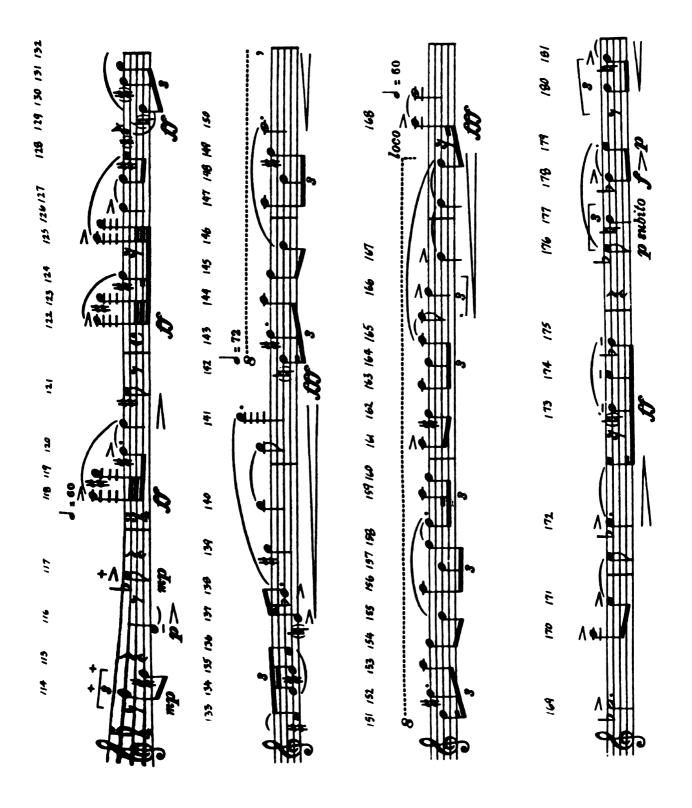
DENSITY 21.5

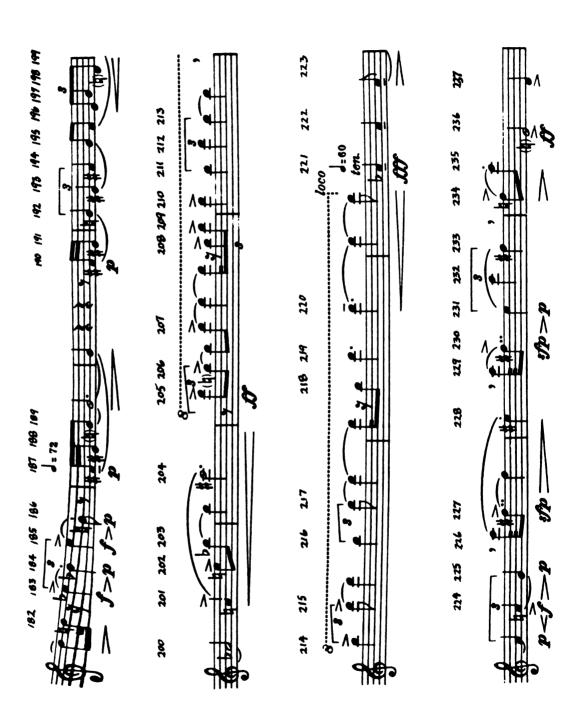
Flute Solo J. 7300

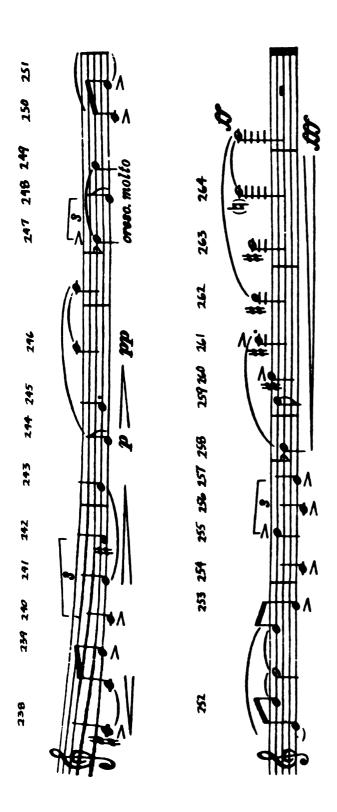


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******* MUSIC MELJDIC PATTERN ANALYSIS ********

ECGARD VARESE DENSITY 21.5 FOR SOLD FLUTE

TEST REQUESTED 1 UNITS OF DATA PER CARD 15

COMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 1 THRO 55 54 56 5	DUGH 15 51 56 51	57	55	54	56	57	51	57	56	57
NOTES 16 THRO 56 54 51 5	OUGH 30 57 51 57	59	6 u	57	60	57	60	62	63	62
NOTES 31 THRO 63 62 63 6	DUGH 45 62 63 62	63	62	64	70	64	58	64	70	53
NOTES 46 THRO 59 65 71 5		66	65	67	65	67	65	66	68	55
NOTES 61 THRO 56 81 61 6		59	61	58	61	7 5	74	7 5	74	75
NCTES 76 THRO 74 75 74	DUGH 90 75 74 75	74	7 5	74	75	74	76	61	60	61
	DUGH 105 59 60 74	75	74	74	74	54	51	54	51	51
NOTES 106 THRO 51 54 64 5	DUGH 120 51 64 51	52	5ძ	54	58	52	65	81	80	68
NOTES 121 THRO 67 81 80 6	58 81 80	68	67	67	57	68	69	56	57	58
NOTES 136 THRO	70 73 83	73	80	83	80	73	83	7 3	80	83
NOTES 151 THRO 73 80 83 8	80 73 83	73	8)	83	68	83	68	83	80	83
NOTES 1 66 THRO	09 14 09	65	6+	65	63	65	64	63	65	63
NOTES 1 81 THRO	OUGH 195 63 65 61	56	55	57	56	55	57	55	56	57

NOTES 196 THROUGH 210 56 55 57 52 58 59 66 72 75 90 NOTES 211 THROUGH 225 88 85 85 88 85 NOTES 226 THROUGH 240 74 68 67 74 68 67 74 NOTES 241 THROUGH 255 56 57 54 57 71 54 64 NOTES 256 THROUGH 265 77 7, 85 -99 50 54 60 64 68 75

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

EDGARD VARESE

DENSITY 21.5 FOR SOLD FLUTE

ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINCR 6 MAJOR 7 OCTAVE MINOR 7 MAJOR 7 OCTAVE MINOR 10 MAJOR 10 PERF. 11 CCMP. TT PERF. 12 MINOR 13 MAJOR 13 MAJOR 13 MAJOR 14 TWO OCT. UNISON INTERVALS EXCEEDING TWO	75 32 42 8 7 27 12 0 3 13 2 5 8 6 2 1 2 0 0 0 13 2	28.52 12.17 15.97 3.04 2.66 10.27 4.56 0.0 1.14 4.94 0.76 1.90 3.04 2.28 0.76 0.38 0.76 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
	-	3.13

263 INTERVALS COUNTED

^{*}INCLUD ING UNISONS

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TGTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINCR 2	37	27.82
MAJOR 2	19	14.29
PINCR 3	23	17.29
PAJCR 3	5	3.76
PERF. 4	1	0.75
TRITCHE	18	13.53
PERF. 5	9	6.77
MINGR 6	0	0.0
PAJOR 6	1	0.75
MINOR 7	6	4.51
MAJOR 7	1	0.75
CCTAVE	0	0.0
MINGR 9	4	3.01
PAJOR 9	5	3.76
MINOR 10	1	0.75
MAJOR 1C	1	0.75
PERF. 11	1	0.75
CCMP. TT	0	0.0
PERF. 12	0	0.0
FINCR 13	0	0.0
MAJOR 13	0	0.0
MINOR 14	0	0.0
MAJOR 14	0	0.0
TWC OCT.	0	0.0
INTERVALS EXCEEDING TWO OCTAVES	1	0.75

133 ASCFNDING INTERVALS COUNTED

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
PINCR 2	38	37.48
MAJOR 2	13	11.11
MINOR 3	19	16.24
MAJOR 3	3	2.56
PERF. 4	6	5.13
TRITCHE	9	7.69
PERF. 5	3	2.56
MINOR 6	0	0.0
MAJOR 6	2 7	1.71
FINCR 7	7	5.98
FAJOR 7	1	0.85
OCTAVE	5	4.27
MINOR 9	4	3.42
MAJOR 9	1	0.85
MINGR 10	1	0.85
PAJOR 10	0	0.0
PERF. 11	1	0.85
COPP. TT	0	0.0
PERF. 12	0	0.0
MINOR 13	3	2.56
MAJOR 13	0	0.0
MINCR 14	0	0.0
MAJOR 14	0	0.0
TWO OCT.	0	0.0
INTERVALS	ĭ	0.85
EXCEEDING TWO OCTAVES	-	

117 DESCENDING INTERVALS COUNTED

*** TYPE I LISTING ***

ECGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH --TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 28 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
PATTERN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	NOTES 1 TO 33 1 TO 34 1 TO 35		NOTES 3 TO 5 5 TO 7 8 TO 10 11 TO 13 13 TO 15 17 TO 19 19 TO 21 23 TO 25 25 TO 27 29 TO 31 31 TO 33 33 TO 35 35 TO 37 37 TO 39 41 TO 43 44 TO 46 48 TO 50 52 TO 54 54 TO 56 56 TO 58 59 TO 61 63 TO 65 66 TO 68 68 TO 70 71 TO 73 73 TO 75 75 TO 77 77 TO 79 79 TO 81 81 TO 83 83 TO 85 85 TO 87 88 TO 90	TEST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LENGTH 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
34 35 36 37 38 39 40	1 TO 3		90 TO 92 93 TO 95 101 TO 103 108 TO 110 110 TO 112 113 TO 115	1 1 1 1 1 1 1 1	3 3 3 3 3
41 42	1 TO 3 1 TO 3 1 TO 3) } }	115 TO 117 120 TO 122 123 TO 125	1 1 1	3 3 3

PATTERN	NCTES		RELATED T	0	NOTE	S	TEST	LENGTH
43	1 TO	3		•	129 TO	131	1	3
44	1 70	3			132 TO	134	1	3
45	1 TO	3			136 TO	138	1	3
46	1 TO	3			141 TO	143	1	3
47	1 TO	3			145 TO	147	1	3
48	1 TO	3			147 TO	149	1	3
49	1 TO	3			150 TO	152	1	3 3
50	1 10	3			154 TO 156 TO	156 158	1	3
51 52	1 TO 1 TO	3			150 TO	161	1	3
53	1 70	3			161 TO	163	1	3
54	1 TO	3			163 TO	165	ī	3
55	1 10	3			166 TO	168	ì	3
56	1 10	3			168 TO	170	i	3
57	1 TO	3			172 TO	174	1	3 3
58	1 TO	3			174 TO	176	1	3
59	1 TO	3			177 TO	179	1	3
60	1 TO	3			179 TO	181	1	3
61	1 10	3			183 TO	185	1	3
62	1 70	3			187 TO	189	1	3
63	1 70	3			190 TO	192	1	3 3 3
64	1 TO 1 TO	3			192 TO 196 TO	194 198	1	3
65 66	1 10	3			198 TO	200	1	3
67	1 70	3			205 TO	207	i	3
68	1 10	3			207 TO	209	i	3
69	1 TO	3			210 TO	212	i	3
70	1 TO	3			215 TO	217	1	3
71	1 TO	3		ä	217 TO	219	1	3
72	1 70	3			224 TO	226	1	3
73	1 TO	3			227 TO	229	1	3
74	1 TO	3			230 TO	232	1	3
75 7.	1 TO	3 3			233 TO	235	1	3 3
76	1 70	3			237 TO	239	1	3
77 78	1 TO 1 TO	3			239 TO 243 TO	241 245	L 1	3
78 79	1 TO	3			243 TO	249	1	3 3 3
80	1 10	3			249 TO	251	1	3
81	1 70	3			253 TO	255	i	3
82	1 70	3 3			255 TO	257	ī	3
83	2 TO	4			4 TO	6	ì	3
84	2 TO	4			6 TO	8	1	3
8 5	2 TO	4			10 TO	12	1	3
86	2 TO	4			12 TO	14	1	3 3 3
87	2 TO	4			14 TO	16	1	3
88	2 10	4			18 TO	20	1	3
89	2 TO	4			22 TO	24	1	3
5 0	2 10	4			24 TO	26	1	
51 52	2 TO 2 TO	4			28 TO 30 TO	30 32	1 1	3 3 3 3
93	2 10	4			30 TO	34	1	3
, ,	2 10	•			JE 10	J 7	•	,

PATTERN	NCTES		RELATED	TC	f	NOTE	S	TEST	LENGTH
94	2 TO	4			34	TO	36	1	3
95	2 TO	4			36	TO	38	1	3
96	2 TO	4			39	TO	41	1	3 3 3
97	2 10	4			43	TO	45	1	3
58	2 TO	4			47	TO	49	1	
99	2 TO	4			50	TO	52	1	3 3 3
100	2 10	4			53 55	TO TO	55 5 7	1	3
101 102	2 TO 2 TO	4			58	TO	60	1	
102	2 TO	4			61	TO	63	1	3 3 3 3
104	2 10	4			67	TO	69	i	3
105	2 10	4			70	TO	72	i	3
106	2 10	4			72	TO	74	ī	3
107	2 TO	4			74	TO	76	ī	3
168	2 10	4			76	TO	78	1	3
109	2 TO	4			78	TO	80	1	3
110	2 TO	4			80	TO	82	l	3
111	2 TO	4			82	TO	84	1	3
112	2 TO	4			84	TO	86	1	3 3 3 3 3
113	2 TO	4			86	TO	88	1	3
114	2 TO	4			89	TO	91	1	3
115	2 10	4			92	TO	94	1	3 3
116	2 TO	4			96	TO	98	1	3
117	2 TO	4			102	TO	104	1	3 3
118	2 10	4			107	TO	109	1	
119	2 TO	4			109	TO	111	1	3 3
120	2 TO 2 TO	4			112	TO TO	114 116	1	3
121 122	2 10	4			117	TO	119	1	3
123	2 10	4			121	TO	123	i	3
124	2 10	4			124	TO	126	i	3
125	2 10	4			131	TO	133	ī	3
126	2 TO	4			135	TO	137	ī	3
127	2 TO	4			140	TO	142	1	3 3
128	2 TO	4			143	TO	145	ī	3
129	2 TO	4			146	TO	148	l	3
130	2 TO	4			149	TO	151	1	3 3 3 3
131	2 TO	4			152	TO	154	1	3
132	2 TO	4			155	TO	157	1	3
133	2 10	4			158	TO	160	1	3
134	2 10	4			160	TO	162	1	3 3
135	2 10	4			162	TO	164	1	
136	2 10	4			164	TO	166	1	3
137 138	2 TO	4			167	TO	169	1	3 3 3 3 3
139	2 TO 2 TO	4			169 173	TO TO	171 175	1 1	2
140	2 TO	4			175	TO	177	1	<i>3</i>
141	2 10	4			178	10	180	i	3
142	2 10	4			182	TO	184	i	3
143	2 10	4			184	TO	186	i	3
144	2 70	4			188	TO	190	ī	3 3

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FOR **** FOR **** FOR **** FOR	48 TO 50 TO 52 TO 53 TO 54 TO	50. SEE 52. SEE 54. SEE 55. SEE 56. SEE	1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3	ABOVE **** ABOVE **** ABOVE **** ABOVE ****
*** FOR *** FOR *** FCR *** FCR *** FCR	55 TO 56 TO 58 TO 59 TO 61 TO 63 TO	57. SEE 58. SEE 60. SEE 61. SEE 63. SEE 65. SEE	2 TO 4 1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****
164 165 166 167 168 169	64 TO 64 TO 64 TO 65 TO 65 TO	66 67 67	180 TO 182 208 TO 210 218 TO 220 99 TO 101 128 TO 130 171 TO 173	1 3 1 3 1 3 1 3 1 3 1 3
170 171 **** FOR **** FOR **** FOR	65 TO 65 TO 66 TO 67 TO 68 TO 70 TO	68. SEE 69. SEE 70. SEE 72. SEE	209 TO 211 219 TO 221 1 TO 3 2 TO 4 1 TO 3 2 TO 4	1 3 ABOVE **** ABOVE **** ABOVE ****
*** FOR *** FOR *** FOR *** FOR *** FOR	71 TO 72 TO 73 TO 74 TO 75 TO 76 TO	73. SEE 74. SEE 75. SEE 76. SEE 77. SEE 78. SEE	1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****
*** FOR *** FOR *** FOR *** FOR *** FOR	77 TO 78 TO 79 TO 80 TO 81 TO 82 TO	79. SEE 80. SEE 81. SEE 82. SEE 83. SEE 84. SEE	1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3 2 TO 4 2 TO 4	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****
**** FOR **** FOR **** FOR **** FOR **** FOR		85. SEE 86. SEE 87. SEE 88. SEE 90. SEE 91. SEE	1 TO 3 2 TO 4 1 TO 3 2 TO 4 1 TO 3 2 TO 4	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****
**** FOR **** FCR **** FGR **** FCR 172 173	90 TO 92 TO	92. SEE 94. SEE 95. SEE 98. SEE	1 TO 3 2 TO 4 1 TO 3 2 TO 4 103 TO 105 127 TO 129	ABOVE **** ABOVE **** ABOVE **** ABOVE *** 1 3 1 3
174 175 176 **** FOR	\$7 TO 97 TO \$7 TO	99 99	170 TO 172 212 TO 214 220 TO 222 65 TO 67	1 3 1 3 1 3

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR **** FOR	101 TO 103		1 TO 3 2 TO 4	ABOVE **** ABOVE ****
**** FOR	103 TO 105		97 TO 99	ABOVE ****
177	105 TO 107		181 TO 183	1 3
178	105 TO 107	•	213 TO 215	1 3
179	105 TO 107		222 TO 224	1 3
**** FOR	107 TO 109		2 10 4	ABOVE ****
**** FCR	108 TO 110		1 TO 3	ABOVE ****
**** FCR	109 TO 111		2 10 4	ABOVE ****
**** FCR	110 TO 112		1 TO 3 2 TO 4	ABOVE ****
**** FOR **** FOR	112 TO 114		2 TO 4 1 TO 3	ABOVE ****
**** FOR	114 TO 116		2 10 4	ABOVE ****
**** FOR	115 TO 117		1 10 3	ABOVE ****
**** FOR	117 TO 119		2 10 4	ABOVE ****
**** FOR	120 TO 122		1 70 3	ABOVE ****
**** FOR	121 TO 123		2 10 4	ABOVE ****
**** FOR	123 TO 125		1 TO 3	ABOVE ***
**** FOR	124 TO 126		2 TO 4	ABOVE ***
**** FCR	127 TO 129	SEF	97 TO 99	ABOVE ****
**** FGR	128 TO 130	• SEE	65 TO 67	ABOVE ****
**** FOR	129 TO 131		1 70 3	ABOVE ***
**** FOR	131 TO 133		2 TO 4	ABOVE ****
**** FOR	132 TO 134		1 TO 3	ABOVE ****
**** FOR	135 TO 137		2 TO 4	ABOVE ****
**** FOR	136 TO 138		1 10 3	ABOVE ****
**** FOR	140 TO 142		2 TO 4 1 TO 3	ABOVE ****
**** FOR **** FOR	141 TO 143		1 TO 3 2 TO 4	ABOVE ****
**** FOR	143 TO 145		1 70 3	ABOVE ***
**** FOR	146 TO 148		2 TO 4	ABOVE ****
**** FOR	147 TO 149			ABOVE ***
**** FOR	149 TO 151		2 10 4	
**** FOR	150 TO 152		1 TO 3	
**** FOR	152 TO 154	• SEE	2 TO 4	ABOVE ****
**** FOR	154 TO 156	• SEE	1 TO 3	ABOVE ****
**** FOR	155 TO 157		2 TO 4	
**** FOR	156 TO 158		1 TO 3	ABOVE ****
**** FOR	158 TO 160		2 TO 4	
**** FOR	159 TO 161		1 10 3	ABOVE ****
**** FOR **** FOR	160 TO 162		2 10 4	ABOVE ****
**** FOR **** FOR	161 TO 163 162 TO 164		1 TO 3 2 TO 4	ABOVE ****
**** FOR			2 TO 4 1 TO 3	ABOVE ***
**** FOR	163 TO 165		2 70 4	ABOVE ***
**** FOR	166 TO 168		1 10 3	
**** FOR	167 TO 169		2 10 4	ABOVE ****
**** FOR	168 TO 170		1 10 3	ABOVE ****
**** FOR	169 TO 171		2 TO 4	
**** FCR	170 TO 172		97 TO 99	
**** FCR	171 TO 173	• SEE	65 TO 67	ABOVE ****

PATTERN	NGTES	RELATED TO	O NOTES	TEST LENGTH
**** FOR		.74. SEE	1 70 3	
**** FGR		75. SEE	2 TO 4	ABOVE ****
**** FOR		76. SEE	1 TO 3	
**** FCR **** FOR		.77. SEE .79. SEE	2 TO 4 1 TO 3	ABOVE ****
**** FOR		80. SEE	2 TO 4	ABOVE ****
**** FOR		.81. SEE	1 10 3	ABOVE ****
**** FOR		82. SEE	64 TO 66	
**** FOR		83. SEE	105 TO 107	
**** FOR		84. SEE	2 TO 4	
**** FOR		85. SEE	1 TO 3	ABOVE ****
**** FOR		.86. SEE	2 TO 4	ABOVE ****
**** FOR	187 TO 1	89. SEE	1 TO 3	ABOVE ***
**** FOR	188 TO 1	90. SEE	2 TO 4	ABOVE ****
**** FGR	190 TO 1	92. SEE	1 TO 3	ABOVE ***
**** FOR		.93, SEE	2 TO 4	ABOVE ****
**** FOR		94. SEE	1 TO 3	ABOVE ***
**** FOR		96. SEE	2 70 4	ABOVE ****
**** FOR		.98. SEE	1 70 3	ABOVE ****
**** FGR		.99. SEE	2 10 4	ABOVE ****
**** FCR		SEF	1 TO 3	ABOVE **** ABOVE ****
**** FOR		106. SEE	2 TO 4 1 TO 3	ABOVE **** ABOVE ****
**** FOR **** FOR		207. SEE 208. SEE	2 TO 4	ABOVE ****
**** FCR		109. SEE	1 TO 3	ABOVE ****
**** FCR		10. SEE	64 TO 66	
**** FCR		11. SEE	65 TO 67	
**** FOR		12. SEE	1 TO 3	ABOVE ****
**** FOR		13. SEF	2 TO 4	ABOVE ****
**** FOR		14. SEE	97 TO 99	ABOVE ***
**** FOR		15. SEE	105 TO 107	ABOVE ***
**** FOR	214 TO 2	16. SEE	2 TO 4	ABOVE ****
**** FOR	215 TO 2	17. SEE	1 TO 3	ABOVE ****
**** FOR		18. SEE	2 TO 4	
**** FCR		19. SEE	1 TO 3	
**** FOR		20. SEE	64 TO 66	
**** FOR		21. SEE	65 TO 67	
**** FCR		SEF	97 TO 99	
**** FOR		24. SEE	105 TO 107 2 TO 4	
**** FOR ****		25. SEE 26. SEE	1 10 3	
**** FOR		26. SEE 27. SEE	2 TO 4	
**** FOR		29. SEE	1 TO 3	ABOVE ****
**** FCR		30. SEF	2 TO 4	ABOVE ****
**** FOR		32. SEE	1 TO 3	ABOVE ****
**** FOR		33. SEE	2 TO 4	ABOVE ****
**** FCR		35, SEE	1 TO 3	ABOVE ****
**** FOR		36. SEE	2 TO 4	
**** FCR		239. SEE	1 TO 3	ABOVE ****
**** FOR		40. SEE	2 TO 4	
**** FOR	239 TO 2	241. SEE	1 TO 3	ABOVE ***

PATT	ERN	NCTI	S REI	ATED TO	NOTES	TEST LENGTH
****	FOR	242 TO	244.	SEE	2 T O	4 ABOVE ****
****	FOR	243 TO	245.	SEE	1 TO	3 ABOVE ****
****	FOR	245 TO	247.	SEE	2 TO	4 ABOVE ****
****	FOR	247 TO	249.	SEE	1 TO	3 ABOVE ****
****	FOR	248 TO	250•	SEE	2 TO	4 ABOVE ****
****	FOR	249 TO	251.	SEE	1 TO	3 ABOVE ****
****	FOR	251 TO	253.	SEE	2 TO	4 ABOVE ****
****	FOR	253 TO	255.	SEE	1 TO	3 ABOVE ****
****	FOR	254 TO	256.	SEE	2 TO	4 ABOVE ***
****	FOR	255 TO	257,	SEE	1 TO	3 ABOVE ****

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 146 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTE	S	TEST	LENGTH
180	1 TO	4	5 TO	8	1	4
181	1 TO	4	11 TO	14	1	4
182	1 70	4	13 TO	16	1	4
183	1 TO	4	17 70	20	1	4
184	1 10	4	23 TO	26	1	4
185	1 TO	4	29 TO	32	1	4
186	1 70	4	31 TO	34	1	4
187	1 TO	4	33 TO	36	1	4
188	1 70	4	35 TO	38	1	4
189	1 TO	4	52 TO	55	1	4
190	1 TO	4	54 TO	57	1	4
191	1 TO	4	66 TO 71 TO	69 74	1	4
192	1 70	4			1	4
193	1 TO	4	73 TO	76 70	1	4
194	1 70	4	75 TO 77 TO	78 80	1 1	4 4
195	1 TO 1 TO	4	79 TO	82	_	4
196		4	81 TO	84	1	4
197		4	83 TO	86	1	4
198	1 TO 1 TO	4	85 TO	88	i	4
199	1 10	4	88 TO	91	1	4
200 201	1 TO	4	101 TO	104	1	4
201 202	1 TO	4	108 TO	111	1	4
203	1 70	4	113 TO	116	i	4
204	1 TO	4	120 TO	123	ì	4
205	1 TO	4	123 TO	126	ī	4
206	1 TO	4	145 TO	148	ī	4
207	1 TO	4	154 TO	157	ĩ	4
208	1 10	4	159 TO	162	ī	4
209	1 TO	4	161 TO	164	1	4
210	1 TO	4	163 TO	166	1	4
211	1 70	4	166 TO	169	1	4
212	1 TO	4	168 TO	171	1	4
213	1 10	4	172 TO	175	1	4
214	1 TO	4	174 TO	177	1	4
215	1 TO	4	177 TO	180	1	4
216	1 TO	4	183 TO	186	1	4
217	1 10	4	187 TO	190	1	4
218	1 TO	4	190 TO	193	1	4
219	1 TO	4	196 TO	199	1	4
220	1 TO	4	205 TO	208	1	4
221	1 TO	4	210 TO	213	1	4
222	1 TG	4	215 TO	218	1	4
223	1 TO	4	224 TO	227	1	4

PATTERN	NOTES		RELATED	TO	NOT	ES	TEST	LENGTH
224	1 TO	4			227 TO	230	1	4
225	1 TO	4			230 TO	233	1	4
226	1 70	4			233 TO	236	1	4
227	1 TO	4			237 TO	240	1	4
228	1 10	4			247 TO	250	1	4
229	1 TO	4			253 TO	256	1	4
230	2 TO	5			10 TO 12 TO	13 15	1 1	4 4
231	2 TO	5 5			18 TO	21	1	4
232	2 TO 2 TO				22 TO	25	1	4
233 234	2 TO 2 TO	5 5			24 TO	27	i	4
235	2 TO	5			28 TO	31	ī	4
236	2 10	5			30 TO	33	ī	4
237	2 TO	5			32 TO	35	ī	4
238	2 TO	5			34 TO	37	ī	4
239	2 TO				36 TO	39	ī	4
240	2 10	5 5			43 TO	46	ī	4
241	2 10	5			47 TO	50	1	4
242	2 TO	5			53 TO	56	ì	4
243	2 TO	5			55 TO	58	1	4
244	2 TO	5			58 TO	61	1	4
245	2 TO	5			67 TO	70	1	4
246	2 10	5 5			70 TO	73	1	4
247	2 TO	5			72 TO	75	1	4
248	2 TO	5			74 TO	77	1	4
249	2 TO	5			76 TO	79	1	4
<i>2</i> 50	2 TO	5 5 5			78 TO	81	1	4
251	2 TO	5			80 TO	83	1	4
252	2 TO				82 TO	85	1	4
253	2 TO	5			84 TO	87	l	4
254	2 TO	5			89 TO	92	1	4
255	2 TO	5			92 TO	95	1	4
256	2 TO	5 5			107 TO	110	1	4
257	2 TO				109 TO	112	1	4
258	2 TO	5			112 TO	115	1	4
259	2 TO	5			114 TO 131 TO	117 134	1 1	4 4
260	2 TO	5 5 5 5 5 5 5			131 TO	138	1	4
261	2 10	フ 5			140 TO	143	i	4
262	2 TO 2 TO	5			146 TO	149	i	4
263 264	2 10	5			149 TO	152	ī	4
264 265	2 TO	5			155 TO	158	ī	4
266	2 TO	5			158 TO	161	ī	4
267	2 T O	5 5			160 TO	163	ī	4
268	2 TO	5			162 TO	165	ī	4
269	2 10	5 5 5			167 TO	170	1	4
270	2 TO	5			173 TO	176	1	4
271	2 10	5			178 TO	181	1	4
272	2 TO	5			182 TO	185	1	4
273	2 TO	5 5 5			191 TO	194	1	4
274	2 10	5			197 TO	200	1	4
-								

PATTERN	NOTES	RELAT	ED TO	NOT	ES	TES	T LENGTH
275	2 TO	5		204 TO	207	1	4
276	2 TO	5		206 TO	209	1	4
277	2 TO	5		214 TO	217	1	4
278	2 TO	5		216 TO	219	1	4
27 9	2 TO	5		223 TO	226	1	4
28 C	2 TO	5		238 TO	241	1	4
281	2 10	5		242 TO	245	1	4
282	2 TO	5		248 TO	251	1	4
283	2 TO	5		254 TO	257	1	4
**** FOR	3 TO	6.	SEE	1 TO	4	ABOVE	***
**** FOR	4 TO	7.	SEE	2 TO	5	ABOVE	***
**** FOR	5 TO	8•	SEE	1 TO	4	ABOVE	****
284	6 TO	9		14 TO	17	1	4
285	6 TO	9		39 TO	42	1	4
286	6 TO	9		50 TO	53	1	4
287	6 TO	9		61 TO	64	1	4
885	6 TO	9		86 TO	89	1	4
289	6 TO	9		117 TO	120	1	4
29 0	6 TO	9		121 TO	124	1	4
591	6 TO	9		124 TO	127	1	4
592	6 TO	9		143 TO	146	1	4
29 3	6 TO	9		152 TO	155	1	4
294	6 TO	9		164 TO	167	1	4
295	6 TO	9		175 TO	178	1	4
5.86	6 TO	9		184 TO	187	1	4
297	6 TO	9		188 TO	191	1	4
298	6 TO	9		194 TO	197	1	4
299	6 TO	9		225 TO	228	1	4
3 00	6 TO	9		228 TO	231	1	4
301	6 TO	9		231 TO	234	1	4
302	6 10	9		234 TO	237	1	4
3 03	6 TO	9		245 TO	248	1	4
3 04 3 05	6 TO	9		251 TO	254	1	4
306	7 TO 7 TO	10 10		16 TO 40 TO	19 43	1	4 4
307	7 TO	10		51 TO	54	1	4
308	7 10	10		62 TO	65	_	4
309	7 TO	10		87 TO	90	1	4
310	7 10	10		100 TO	103	i	4
311	7 10	10		119 TO	122	ī	4
312	7 TO	10		122 TO	125	ī	4
313	7 TO	10		144 TO	147	ī	4
314	7 TO	10		153 TO	156	1	4
315	7 TO	10		165 TO	168	ī	4
316	7 10	10		176 TO	179	ī	4
31 7	7 10	10		186 TO	189	1	4
318	7 TO	10		189 TO	192	1	4
319	7 TO	10		195 TO	198	1	4
320	7 TO	10		226 TO	229	1	4
321	7 T O	10		229 TO	232	1	4
322	7 TO	10		232 TO	235	1	4

		;

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
?23	7 TO 10	23	6 TO 239	ı	4
324	7 TO 10	24	6 TO 249	1	4
32 5	7 TO 10	25	2 TO 255	1	4
326	8 10 11		9 TO 22	1	4
32 7	8 TO 11		25 TO 28	1	4
32 8	8 TO 11		7 TO 40	1	4
329	8 TO 11		1 TO 44	1	4
33 Q	8 TO 11		4 TO 47	1	4
33 1	8 TO 11		8 TO 51	1	4
33.2	8 TO 11		6 TO 59	1	4
333 334	8 TO 11		69 TO 62 68 TO 71	1 1	4 4
334 335	8 TO 11 8 TO 11		0 TO 93	1	4
336	8 TO 11		3 TO 96	1	4
337	8 TO 11	11		ī	4
338	8 TO 11	11		ī	4
339	8 TO 11	12		ī	4
340	8 TO 11	13		1	4
341	8 TO 11	13		1	4
342	8 TO 11	14		1	4
343	8 TO 11	14	7 TO 150	1	4
344	8 TO 11	15		1	4
345	8 TO 11	15		1	4
346	8 TO 11	19		1	4
347	8 TO 11	19		1	4
348	8 TO 11	23		1	4
349	8 TO 11	24		1	4
350	8 TO 11	24		Ţ	4
351	8 TO 11	25		1	4
352 353	9 TO 12		1 TO 24	1	4
353 354	9 TO 12		7 TO 30 8 TO 41	1	4
354 355	9 TO 12 9 TO 12		2 TO 45	i	4
356	9 10 12		6 TO 49	1	4
357	9 10 12		9 TO 52	i	4
358	9 TO 12		7 TO 60	ī	4
359	9 TO 12		0 TO 63	1	4
360	9 TO 12		9 TO 72	1	4
361	9 TO 12		1 TO 94	1	4
362	9 70 12	9	5 TO 98	1	4
363	9 TO 12			1	4
364	9 TO 12		.1 TO 114	1	4
365	9 TC 12			1	4
366 243	9 10 12			1	4
367 368	9 TO 12			1	4
368 369	9 TO 12 9 TO 12		9 TO 142	1	4
3 7 0				1	4 4
371	9 TO 12 9 TO 12			1	4
372	9 10 12		7 TO 160	1 1	4
373	9 10 12			ì	4
- :	, 10 12		J . J . L . J	•	•

PATT	ERN	•	ICTES		RELATED TO	ħ	NOTE	S	TES	51	LENGTH
37		9	TO	12		203	TO	206	1		4
37		9	TO	12		241	TO	244	1		4
37		9	70	12		244	TO	247]	<u>l</u>	4
37		9	TO	12		250	TO	253	10045	.	4
****	FOR	10	TO	13.	SEE	2	TO	5	ABOVE		
****	FOR	11	TO	14.	SEE	1	TO	4	ABOVE	***	
****	FOR	12	TO	15.	SEE	2	TO	5	ABOVE	***	
****	FCR	13	TO	16.	SEE	1	TO	4	ABOVE	***	
***	FOR	14	TO	17.		6	TO	9	ABOVE	***	
****	FOR	16	TO	19.		7	TO	10	ABOVE	***	
	FCR	17	TO	20•	SEE	1	TO	4	ABOVE	***	
****		18	TO	21.	SEE	2	TO	5	ABOVE	***	
****		19	TO	22•	SEE	8	TO	11	ABOVE	***	-
****		21	TO	24.	SEE	9	TO	12	ABOVE	**4	
***		22	TO	25.		2	TO	5	ABOVE	***	
	• • •	23	TO	26.		1	TO	4	ABOVE	***	
****		24	TO	27,	SEE	2	TO	5	ABOVE	***	
		25	TO	28.	SEE	8	TO	11	ABOVE	***	
***		27	TO	30.	SEE	9	10	12	ABOVE	***	
***	•	28	TO	31.	SEE	2	TO	5	ABOVE	***	
****	- -	29	TO	32.	SEE	1	TO	4	ABOVE	***	
***		30	TO	33.	SEE	2	TO	5	ABOVE	***	
***		31	TO	34,	SEE	1	TO	4	ABOVE	***	
***		32	TO	35,	SEE	2	TO	5	ABOVE	***	
***		33	TO	36.		1	TO	4	ABOVE	***	
***		34	TC	37.	SEE	2	TO	5	ABOVE	**1	
***		35	TO	38,	SEE	1	TO	4	ABOVE	***	
***		36	TO	39•	SEE	2	TO	5	ABOVE	***	
***		37	TO	40.	SEE	8	TO	11	ABOVE	***	
***	FOR	38	TO	41.	SEE	9	TO	12	ABOVE	***	
***	FOR		TO	42.	SEE		TO		ABOVE		•
***	FGR		TO	43.	SEE		TO		ABOVE		
*	FOR	41	TO	44,		8	TO		ABOVE		
*	FOR	42	TO	45,		9	TO		ABOVE		
***		43	TO	46,		2	TO		ABOVE	**1	
***	FOR	44	TO	47.		8	TO	11		***	
***	FOR		TO	49.	SEE	9	TO		ABOVE		
***	FOR		TO	50.	SEE	2	TO		ABOVE		
***	FOR	48	TO	51.	SEE	8	TO	11			
***	FOR	49	TO	52.	SEE		TO		ABOVE		
***		50	TO	53,	SEE	6	TO	9			
****		51	TO	54.	SEE	7	TO		ABOVE		
***	FOR	52	TO	55.	SEE	1	TO		ABOVE		
	FOR	53	TO	56.	SEE	2	TO		ABOVE		
	FOR	54	TO	57.	SEE	1	TO	4	ABOVE		
	FOR	55	TO	58.	SEE	2	TO	5	ABOVE	***	
	FOR	56	TO	59.	SEE	8	TO	11	ABOVE	***	
	FOR	57	TO	60.	SEE	9	TO		ABOVE	***	
***	FCR	58	TO	61.		2	TO		ABOVE		
	FOR	59	TO	62.		8	TO	11		***	
~~*	FO R	60	TO	63.	SEE	9	TO	12	ABOVE	***	k *

PATTERN	NGTES	RELA	TED TC	NOTE	S	TEST	LENGTH
**** FOR	61 TO	64.	SEE	6 TO		ABOVE ***	•
**** FCR	62 TO	65.	SEE	7 10	10	ABOVE ***	
378	63 TO	66		179 TO	182	1	4
379	63 TO	66		207 TO	210	1	4
3 8 0	63 TO	66		217 TO	220	1	4
38 1	64 TO	67		208 TO	211	1	4
38 2	64 TO	67		218 TO	221	1	4
38 3	65 TO	68		128 TO	131	1	4
384	65 TO	68		171 TO	174	1	4
385	65 TO	68		209 TO	212	1	4
**** FCR	66 TO	69.	SEE	1 10	4	ABOVE ***	
**** FOR	67 TD	70.	SEE	2 10	5	ABOVE ***	•
**** FCR	68 TO	71.	SEE	8 TO	11	ABOVE ***	
TANK FOR	69 TO	72.	SEE	9 TO	12	ABOVE ***	
*** FOR	70 TO	73.	SEE	2 TO	5	ABOVE ***	
*** FOR	71 TO	74.	SEE	1 TO	4	ABOVE ***	•
*** FOR	72 TO	75.	SEE	2 TO	5	ABOVE ***	
*** FOR	73 TO	76,	SEE	1 TO	4	ABOVE ***	*
*** FCR	74 TO	77•	SEE	2 TO	5	ABOVE ***	
*** FOR	75 TO	78•	SEE	1 10	4	ABOVE ***	_
*** FOR	76 TO	79.	SEE	2 TO	5	ABOVE ***	-
*** FOR	77 TO	80.	SEE	1 TO	4	ABOVE ***	_
FOR	78 TO	81.	SEE	2 TO	5	ABOVE ***	*
*** FOR	79 TO	82,	SEE	1 TO	4	ABOVE ***	•
*** FOR	OT 08	83•	SEE	2 TO	5	ABOVE ***	
*** FOR	81 TO	84.	SEE	1 10	4	ABOVE ***	-
** ** FOR	82 TO	85•	SEE	2 TO	5	ABOVE ***	*
** ** FOR	83 TO	86•	SEE	1 TO	4	ABOVE ***	*
** ** FOR	84 TO	87,	SEE	2 TO	5	ABOVE ***	*
→ → FOR	85 TO	88•	SEE	1 TO		ABOVE ***	
** →* FGR	86 TO	89.	SEE	6 TO	9	ABOVE ***	
** ** FOR	87 TO	90•	SEE	7 10	10	ABOVE ***	
** FOR	88 TO	91.	SEE	1 TO	4	ABOVE ***	
* ** FOR	89 TO	92•	SEE	2 TO	5	ABOVE ***	
** ** FOR	90 TO	93.	SEE	8 TO	11	ABOVE ***	
→ →+ FCR	51 TO	94.	SEE	9 TO		ABOVE ***	
* ** FOR	92 TO	95•	SEE	2 TO	5	ABOVE ***	
* → ++ FOR	93 TO	96•	SEE	8 TO	11	ABOVE ***	
► → → FOR	95 TO	98.	SEE	9 TO	12	ABOVE ***	*
386	96 TO	99		102 TO	105	1	4
387	96 TO	99		169 TO	172	1	4
388	96 TO	99		211 TO	214	1	4
389	97 TO	100		103 TO	106	1	4
390	97 TO	100		220 TO	223	1	4
*** FOR	100 TO	103.	SEE	7 10		ABOVE ***	
**** FOR	101 TO	104.	SEE	1 TO		ABOVE ***	
**** FOR	102 TO	105.	SEE	96 TO	99	ABOVE ***	
**** FOR	103 TO	106,	SEE	97 TO	100	ABOVE ***	
391	104 TO	107		221 TO	224	1	4
**** FOR	106 TO	109.	SEE	9 TO		ABOVE ***	
**** FO R	107 TO	110.	SEE	2 TO	5	ABOVE ***	*

PATT	ERN	•	NOTE	S	RELATED	TO	NOTE	S	TES	S T	LENGT
4444	500	100	T.0		۵.	:c •	T.C.	ı.	ABOUT	***	, s i e
****			TO TO	111.		EE 1 EE 2	TO TO		ABOVE ABOVE		
****	FOR FOR	109 110	TO	112.		EE 8		11	ABOVE		
****	FOR	111	TO	114.		EE 9		12	ABOVE		
****	FOR	112	TO	115.		EE 2		5	ABOVE		
****	FCR	113	TO	116.		EE 1		4	ABOVE		
****	FCR	114	TO	117.		EE 2		5	ABOVE	***	*
***	FCR	115	TO	118.		EE 8		11	ABOVE	***	*
***	FOR	116	TO	119.		EE 9	OT 0	12	ABOVE	***	c ‡
****	FOR	117	TO	120.	SE	EE 6	S TO	9	ABOVE		
***	FOR	119	TO	122.			7 TO	10	ABOVE		
****		120	TO	123.		EE 1	_	4	ABOVE		
***	FOR	121	TO	124.		EE 6		9	ABOVE		
***	FOR	122	TO	125.		EE 7			ABOVE		
***	FCR	123	TO	126.		EE 1	_	4	ABOVE		
**** 39	FUR	124	TO	127.	, SI	EE 6		9 173	ABOVE		4
***	ر 100	127 128	TO TO	130 131.		EE 65		68	ABOVE		
***	FOR	129	TO	132.		EE 8		11	ABOVE		
***	FOR	130	TO	133.		EE 9		12			
****	FOR	131	TO	134,		EE 2		5	ABOVE		
***	FOR	132	TO	135.		EE 8		11	ABOVE		
***	FOR	134	TO	137.		EE 9		12	ABOVE		
***	FOR	135	TO	138.		EE 2	? TO	5	ABOVE		
***	FOR	136	TO	139.	SI	EE 8	TO 8	11	ABOVE		
***	FOR	139	TO	142.	SI SI	EE 9		12			
***	FOR	140	TO	143.		EE 2		5	ABOVE		
***		141	TO	144.		EE 8		11	ABOVE		
***	FOR	142	TO	145.		EE 9		12	ABOVE		
* **	FOR	143	TO	146.		EE 6		9	ABOVE	***	
***		144		147.		EE 7		10			
***	FOR	145 146	TO	148,		EE 1 EE 2	OT 2		ABOVE		
• • • •	EUD	147	TO	150.		EE 8		11	ABOVE		
* **	FCR	148	TO	151.		EE 9		12	ABOVE		
* 🤝 🛪 1	FOR	149	TO	152.		EE 2		5	ABOVE	***	
* **	FOR	150	TO	153.		EE 8		11	ABOVE	***	*
* * *	FOR	151	TO	154.		EE 9		12	ABOVE	***	*
* * *	FOR	152	TO	155.		EE 6	to s	9	ABOVE		
***	FOR	153	TO	156,	SE	EE 7	TO	10	ABOVE		
***		154	70	157.		EE 1		4	ABOVE		
***		155	TO	158.		EE 2		5	ABOVE		
***	FOR	156	TO	159.		EE 8		11	ABOVE	***	
****	FOR			160.		EE 9		12			
****		158	TO	161.		EE 2		5	ABOVE		
****	FOR	159	TO TO	162.		EE 1 EE 2	1 TO 2 TO	4 5	ABOVE ABOVE		
****		160 161	TO	163. 164.		E		4	ABOVE	***	
****				165.		EE 2		5	ABOVE	***	
****			TO	166.		EE 1		4	ABOVE	***	
****		164		167.			TO	9	ABOVE	***	
	-	207		,		_ ~	- •••	•		. •	

PA TTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	165 TO 168	SEE	7 TO 10	ABOVE ****
**** FOR	166 TO 169		1 TO 4	ABOVE ****
**** FOR	167 TO 170		2 TO 5	
**** FOR	168 TO 171		1 TO 4	
**** FOR	169 TO 172		96 TO 99	
**** FOR	170 TO 173		127 TO 130	
**** FOR	171 TO 174		65 TO 68	ABOVE ****
*** FOR	172 TO 175		1 TO 4	
**** FCR	173 TO 176		2 10 5	
**** FOR	174 TO 177		1 70 4	
**** FCR	175 TO 178		6 TO 9	ABOVE **** ABOVE ****
	176 TO 179		7 TO 10 1 TO 4	
	177 TO 180		2 10 5	
*** FOR	178 TO 181		63 10 66	ABOVE ****
393	181 TO 184		213 TO 216	1 4
394	181 TO 184		222 TO 225	1 4
*** FOR	182 TO 185		2 10 5	_
*** FOR	183 TO 186		1 TO 4	ABOVE ****
*** FOR	184 TO 187		6 TO 9	
*** FOR	186 TO 189		7 TO 10	
*** FOR	187 TO 190		1 TO 4	
*** FOR	188 TO 191		6 TO 9	
*** FOR	189 TO 192		7 TO 10	
*** FOR	190 TO 193		1 TO 4	
** ** FOR	191 TO 194		2 TO 5	ABOVE ****
** ** FOR	192 TO 195	SEE SEE	8 TO 11	ABOVE ****
** ** FOR	193 TO 196	• SEE	9 TO 12	ABOVE ****
*** FOR	194 TO 197	r• SEE	6 TO 9	ABOVE ****
** FOR	195 TO 198	SEF	7 TO 10	
** FOR	196 TO 199	• SEE	1 TO 4	ABOVE ****
** FOR	197 TO 200		2 TO 5	
** FOR	198 TO 201		8 TO 11	ABOVE ***
** FOR	203 TO 206		9 TO 12	
** FOR	204 TO 207		2 10 5	
** FOR	205 TO 208		1 TO 4	
** ** FOR *** FOR	206 TO 209		2 TO 5	
	207 TO 210		63 TO 66	
-	2C8 TO 211		64 TO 67	
	209 TO 212		65 TO 68	
_	210 TO 213		96 TO 99	
**** FCR	211 TO 214 213 TO 216		181 TO 184	· · · · · -
**** FOR	214 TO 217		2 10 5	
*** FOR	215 TO 218		1 10 4	
**** FOR	216 TO 219		2 10 5	· - • -
**** FOR	217 TO 220		63 TO 66	
**** FOR	218 TO 221		64 TO 67	
**** FOR	220 TO 223		97 TO 100	
**** FOR	221 TO 224			ABOVE ****
**** FO &	222 TO 225			ABOVE ****
				<u>_</u>

PATT	ERN	P	ICTE	S REI	LATED	TO	٨	OTES		TES	S T	LENGTH
							_		_			
****	FOR	223	TO	226•	SE		2	TO	5	ABOVE	***	
****	FOR	224	TO	227•	SE	_	1	TO	4	ABOVE	***	-
****	FOR	225	TO	228,	SE		6	TO	9	ABOVE	**1	
****	FOR	226	TO	229.	SE		7	TO	10	ABOVE	***	
****	FOR	227	TO	230•	SE		1	70	4	ABOVE	**1	
****	FCR	228	TO	231•	SE		6	TO	9	ABOVE	***	
****	FOR	229	TO	232•	SE		7	TO	10	ABOVE	***	-
****	FOR	230	TO	233.	SE		1	TO	4	ABOVE	***	
****	FOR	231	TO	234•	SE		6	TO	9	ABOVE	***	-
***	FOR	232	TO	235•	SE		7	TO	10	ABOVE	***	
***	FOR	233	TO	236.	SE	E	1	TO	4	ABOVE	***	**
***	FOR	234	TO	237,	SE	E	6	TO	9	ABOVE	***	**
***	FOR	236	TO	239•	SE	E	7	TO	10	ABOVE	***	* *
****	FOR	237	TO	240.	SE	E	1	TO	4	ABOVE	**1	**
***	FCR	238	TO	241.	SE	E	2	TO	5	ABOVE	***	k#
****	FOR	239	TO	242.	SE	E	8	TO	11	ABOVE	**1	k apk
***	FOR	241	TO	244.	SE	E	9	TO	12	ABOVE	***	k a
***	FOR	242	TO	245.	SE	E	2	TO	5	ABOVE	***	k *
***	FOR	243	TO	246.	SE	E	8	TO	11	ABOVE	***	: *
***	FOR	244	TO	247.	SE	E	9	TO	12	ABOVE	***	**
***	FOR	245	TO	248.	SE	Ε	6	TO	9	ABOVE	***	**
***	FOR	246	TO	249.	SE	E	7	TO	10	ABOVE	***	**
***	FGR	247	TO	250•	SE	E	1	TO	4	ABOVE	***	* *
***	FOR	248	TO	251.	SE	E	2	TO	5	ABOVE	***	k 🛊
****	FOR	249	TO	252.	SE	E	8	TO	11	ABOVE	**1	k 🛊
* * * *	FOR	250	TO	253.	SE	E	9	TO	12	ABOVE	***	k ≰
***	FOR	251	TO	254.	SE		6	TO	9	ABOVE	***	k 🛊
***	FOR	252	TO	255.	SE		7	TO	10	ABOVE	***	: *
* * *	FOR	253	TO	256.	SE		ì	TO	4	ABOVE	**4	k 🕸
* * *	FOR	254	TO	257.	SE		2	TO	5	ABOVE	***	**
***	FOR	255	TO	258.	SE		8	TO	11	ABOVE	**4	k a k
							_	-				

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*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 286 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED TO	NO.	TES	TEST	LENGTH
39 5 3 S 6	1 TO	5 5		11 TO		1	5 5
3 5 7	1 10	5		23 T		î	5
398	1 10	5		29 T		ì	5
399	1 TO	5		31 T		1	5
4G0	1 TO	5		33 T		1	5
401	1 TO	5		35 T		1	5
402	1 TO	5		52 TO		1	5
4 03 4 04	1 TO 1 TO	5 5		54 TO		1 1	5 5
4 05	1 10	5		71 T		1	5
406	1 TO	5		73 T		î	5
407	i to	5		75 T		ī	5
408	1 TO	5		77 T	3 81	1	5
409	1 TO	5		79 T		1	5
410	1 TO	5		81 T		1	5
411	1 TO	5		83 T		1	5
412	1 TO	5		88 T		1	5
413	1 10	5		108 T		1	5
414	1 TO	5		113 TO		1	5
415	1 TO	5		145 TO		1 1	5 5
416 417	1 TO 1 TO	5 5		159 T		i	5
417	1 TO	5		161 TO		i	5
419	1 10	5		166 T		i	5
420	1 TO	5		172 TO		ī	5
421	1 TO	5		177 TO		ī	5
422	1 TO	5		190 T	194	1	5
423	1 TO	5		196 T		1	5
424	1 70	5		205 TI		1	5
425	1 10	5		215 T		1	5
426	1 10	5		237 TO		1	5
427	1 TO	5		247 TO		1	5 5
4 28	1 TO 2 TO	5		10 T		1	5 5
429 430	2 TO	6		12 T		i	5
431	2 TO	6		22 T		î	5
432	2 10	6		28 TO		ī	5
433	2 10	6		30 T		ī	5
434	2 TO	6		32 T		1	5
435	2 TO	6		34 T		1	5
436	2 TO	6		53 T		1	5
437	2 TO	6		70 T		1	5
438	2 TO	6		72 TI	76	1	5

PATTERN	NCTES	1	RELATED TO	P	NOTE	S	TES	ST L	ENGTH
439	2 TO	6			TO	78	1	-	5
440	2 TO	6		76	TO	80	1	-	5
4-4-1	2 TO	6		78	TO	82	1		5
442	2 TO	6		80	TO	84	1		5
443	2 TO	6		82	TO	86]	_	5
444	2 TO	6		84	TO	88	1		5
44.5	2 TO 2 TO	6		107 112	TO TO	111 116]	-	5 5
4 % 6 4 % 7	2 TO	6 6		158	TO	162	1	-	5
448	2 TO	6			TO	164	i	-	5
449	2 TO	6		162	TO	166	j		5
450	2 TO	6		167	TO	171	j		5
451	2 TO	6			TO	177	i		5
452	2 TO	6		182	TO	186	1	-	5
453	2 10	6		204	TO	208	î	=	5
454	2 TO	6		214	TO	218	ī	•	5
455	2 TO	6		223	TO	227	ì	Ĺ	5
**** FOR	3 TO	7.	SEE	1	TO	5	ABOVE	****	
*** FOR	4 TO	8.	SEE	2	TO	6	ABOVE	****	
456	5 TO	9		13	TO	17	3		5
457	5 TO	9		85	TO	89	1		5
458	5 TO	9		120	TO	124	1	Ĺ	5
459	5 TO	9		123	TO	127	1	Ļ	5
460	5 TO	9		163	TO	167	1	•	5
461	5 TO	9		174	TO	178	1		5
462	5 TO	9		183	TO	187	1	-	5
463	5 TO	9		187	TO	191	1	-	5
464	5 TO	9		224	TO	228	1	-	5
465	5 TO	9		227	TO	231	1		5
466	5 10	9		230		234	1	-	5
467	5 TO	9			TO	237	1		5
468	6 10	10			TO	43	1		5
469	6 TO	10		50	TO	54	1		5 5
470	6 TO 6 TO	10 10		61 86	TO TO	65 90	1		5 5
471 472	6 TO 6 TO	10		121	TO	125	i		5
473	6 10	10			TO	147	i		5
474	6 TO	10			to	156	i		5
475	6 10	10		164	TO	168	i		5
476	6 TO	10		175	TO	179	ī		5
477	6 TO	10		188	TO	192	ì		5
478	6 TO	10		194	TO	198	1	Ļ	5
479	6 TO	10		225	TO	229	1		5
480	6 TO	10		228	TO	232	1		5
481	6 TO	10		231	TO	235	1	l	5
482	6 TO	10		245	TO	249	1	L	5
483	6 TO	10		251	TO	255	1	-	5
**** FOR	6 TO	10.	SEE	6	TO		70010	****	
484	7 TO	11		40	TO	44	1		5
485	8 TO	12		37	TO	41	1		5
486	8 TO	12		41	TO	45	1	Į.	5

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
487	8 TO	12	48 TO 52	1 5
488	8 TO	12	56 TO 60	1 5
4 8 9 4 9 0	8 TO 8 TO	12 12	59 TO 63 68 TO 72	1 5 1 5
491	8 TO	12	90 10 94	i 5
492	8 70	12	110 TO 114	1 5
493	8 TO	12	115 TO 119	i 5
494	8 TO	12	129 TO 133	1 5
495	8 TO	12	141 TO 145	1 5
456	8 TO	12	147 TO 151	1 5
497	8 TO	12	150 TO 154	1 5
498	8 TO	12	156 TO 160	1 5
49 9	8 TO 8 TO	12 12	192 TO 196 243 TO 247	1 5 1 5
5 0 0 5 0 1	8 TO	12	249 TO 253	1 5
*** FOR	8 TO	12. SEE	8 TO 12	ABOVE ****
50 2	9 10	13	21 TO 25	1 5
50 3	9 TO	13	27 TO 31	1 5
504	9 TO	13	42 TO 46	1 5
5G 5	9 TO	13	46 TO 50	1 5
50 6	9 TO	13	57 TO 61	1 5
50 7	9 10	13	69 TO 73	1 5
50 æ	9 TO	13	91 TO 95	1 5
5C S	9 10	13	106 TO 110	1 5 1 5
51 © 51 1	9 TO 9 TO	13 13	111 TO 115	1 5 1 5
51 2	9 TO	13	134 TO 138	1 5
513	9 TC	13	139 TO 143	i 5
514	9 10	13	148 TO 152	i ś
515	9 TO	13	157 TO 161	1 5
51.6	9 10	13	203 TO 207	1 5
517	9 10	13	241 TO 245	1 5
FOR	10 TO	14. SEE		ABOVE ****
FUR	11 TO	15. SEE	1 TO 5	ABOVE ****
FOR FOR	12 TO 13 TO	16. SEE 17. SEE	2 TO 6 5 TO 9	ABOVE **** ABOVE ****
518	15 TO	17. SEE 18	117 70 121	1 5
519	14 TO	18	124 TO 128	1 5
520	14 TO	18	184 TO 188	i 5
521	14 TO	18	234 TO 238	1 5
522	15 TO	19	118 TO 122	1 5
523	15 TO	19	185 TO 189	1 5
524 **** 500	15 70	19	235 TO 239	1 5
52 5	15 TO	19. SEE	15 TO 19	ABOVE ****
526	16 TO	20	51 TO 55 87 TO 91	1 5 1 5
52 7	16 TO 16 TO	20 20	100 TO 104	1 5
52 8	16 TO	20	119 70 123	i 5
,5 ~	16 70	20	122 TO 126	i ś
53	16 TO	20	144 TO 148	1 5
53.2	16 TO	20	153 TO 157	1 5

PATTERN	NCTES		RELATED TO	NO	res	TEST	LENGTH
532	16 10	20		165 T		1	5
5 3 3	16 TO 16 TO	20 20		176 TO		1 1	5 5
5 3 4 5 3 5	16 TO 16 TO	20		189 T		i	5
536	16 TO	20		195 T		i	5
537	16 TO	20		226 TO		ī	5
538	16 TO	20		229 T		1	5
53 9	16 TO	20		232 T	236	1	5
540	16 TO	20		236 T		1	5
5 4 l	16 TO	20		246 TO		1	5
54 2	16 TO	20		252 TO		1	
**** FOR	17 TO	21.	SEE	1 TO			
5 4 -3 5 4- 4	18 TO	22 22		24 TO		1	5 5
5 4 5	18 TO 18 TO	22		43 T		1	5
54 6	18 70	22		47 T		î	5
567	18 TO	22		55 T		i	5
54-8	18 TO	22		58 T		ī	5
54 9	18 TO	22		67 TI		1	5
5 5 t 0	18 TO	22		89 T	93	1	5
5 5 1	18 TO	22		92 T		1	5
55 2	18 TO	22		109 TI		1	5
55 <u>3</u>	18 TO	22		114 T		1	5
55 🥌	18 TO	22		131 T		1	5
55 5	18 TO	22		135 T		1	5
55 ← 55 →	18 TO	22		140 TO		1 1	5 5
55 3	18 TO 18 TO	22 22		149 7		1	5
55 9	18 TO	22		155 T		i	5
56 0	18 TO	22		191 TO	_	ī	5
56 1	18 TO	22		197 T		ī	5
56 >	18 TO	22		238 T	242	ī	5
563	18 TO	22		242 TO	246	1	5
564	18 TO	22		248 T		1	5
565	18 TO	22		254 T		1	5
566	19 10	23		25 T		1	5
567 568	19 10	23		44 TI		1	5
569	19 70	23 23		93 TO		1	5 5
570	19 TO 19 TO	23		136 TO		1	5
571	19 70	23		198 T		i	5
572	19 TO	23		239 T		i	5
573	19 TO	23		255 TO		ī	5
574	20 TO	24		26 T		ī	5
575	20 TO	24		45 TI	3 49	1	5
576	20 TO	24		94 T	98	1	5
577	20 TO	24		133 T		1	5
57 B	20 TO	24		138 T		1	5
57 9	20 TO	24		202 T		1	5
58 0	20 TO	24	65.5	240 TO		1	5
FOR	20 TO	24.	SEE	20 T	24	ABOVE ***	₽ 4

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PAT	TERN	,	NOTES		RELATED	TO	NOT	ES	TES	S T	LENGTH
***	• FOR	21	TO	25.	SE	E 9	TO	13	ABOVE	***	*
***	• FOR	22	TO	26.	SE	E 2	TO	6	ABOVE	***	*
***	• FCR	24	TO	28,	SE	E 18		22	ABOVE	***	*
	FOR	25	TO	29•	SE				ABOVE	***	
	• FOR	26	TO	30.	SE		TO		ABOVE	***	
	► FOR	27	TO	31.					ABOVE	***	
	FOR	35	TO	39.				5		***	•
	FOR	36	TO	40.	SE			22		***	
	FOR	37	TO	41.	SE			12	ABOVE		-
58		38	TO	42			TO	53		<u>l</u>	5
5€		38	TO	42			TO	64]		5 5
5€		38	TO	42			TO	120	1		5
56	- •	38	TO	42			TO TO	146 155	1		5
58 58		38	TO TO	42			TO	197	1	-	5 5
5 8		38 38	TO	42 42		244		248		_	5
58		38	TO	42		250		254		i	5
***	-	39	TO	43.	SE				ABOVE	_	_
***		40	TO	44.	SE			11	ABOVE	***	
***		41	TO	45.		-			ABOVE	***	*
***		42	TO	46.	SE				ABOVE	***	*
***	FOR	43	TO	47.	SE				ABOVE	***	*
***	FOR	44	TO	48.			TO		ABOVE	***	*
***	FOR	45	TO	49.	SE	-			ABOVE	***	*
***	FOR	46	TO	50.	SE			13	ABOVE	***	*
***	FOR	47	TO	51.	SE	E 18	TO	22	ABOVE	***	*
***	FOR	48	TO	52.	SE	E 8	TO	12	ABOVE	***	*
***	FOR	49	TO	53,	SE	E 38	TO	42	ABOVE	***	*
***	101	50	TO	54.	SE	E 6	TO	10	ABOVE	***	*
****		51	TO	55.	SE	E 16	TO	20	ABOVE	***	*
****	FOR	52	TO	56.	SE	E 1	TO	5	ABOVE	***	*
****	FOR	54	TO	58.	SE	E 1	TO	5	ABOVE	***	*
***		55	TO	59.	SE	E 18	TO	22	ABOVE	***	*
***	FOR	56	TO	60.	SE		_		ABOVE	***	*
****	FOR	57	TO	61.	SE				ABOVE	***	
****		58	TO	62.			TO		ABOVE	***	*
***		59	TO	63.	SE				ABOVE	***	*
***		60	TO	64,	SE				ABOVE	***	
- 44	FOR	61	TO	65.	SE	_	TO	10	ABOVE		
58	19	63	TO	67			TO	211	1		5
59	FOR	63	TO	67			TO	221	_	l 	. 5
59	FUR	63	TO	67.	SE				ABOVE		
59	L	64	TO	68		208		212	1		5
55	2	65	TO	69		171		175	1		5
***		65	TO	69	SE	209 E 1		213	ABOVE	l +++	5
***	FOR FOR	66 67	TO TO	70, 71,				_	ABOVE	***	*
***	FOR	68	TO	72.				12		***	*
***	FOR	69	TO	73,				13	AROVE	***	•
***	FCR	70	TO	74.		_			ABOVE	***	
***	#CR	83	TO	87.					ABOVE	***	-
-	æ-uk	0.3	ıu	0/•	35	E 1	1 ()	7	M DU V E	***	-

PA TTER	N P	NOTES	RELATED TO	D N	IOTES	TEST	LENG TH
+** ≠ F(OR 84	TO 88	• SEE	2	TO 6	ABOVE **	**
**** F	OR 85	TO 89	• SEE	5	TO 9	ABOVE **	**
*** F	OR 86	TO 90	• SEE	6	TO 10	ABOVE **	**
*** F	GR 87	TO 91	• SEE	16	TO 20	ABOVE **	**
**** F	OR 88	TO 92	SEE	1	TO 5	ABOVE **	**
*** F	OR 89	TO 93	• SEE	18	TO 22	ABOVE **	**
*** F	OR 90	TO 94	• SEE	8	TO 12	ABOVE **	**
44+ - F	OR 51	TO 95	• SEE	9	TO 13	ABOVE **	**
### F	OR 92	TO 96	SEF	18	TO 22	ABOVE **	**
### # F	CR 93	TO 97	SEE	19	TO 23	ABOVE **	**
###=== F	OR 94	TO 98	• SEE	20	TO 24	ABOVE **	**
554	96	TO 100		102	TO 106	1	5
*** F	OR 96	TO 100	• SEE	96	TO 100	ABOVE **	**
****** F	OR 100	TO 104	• SEE	16	TO 20	ABOVE **	**
5 9 5	101	TO 105		168	TO 172	1	5
596	101	TO 105		210	TO 214	1	5
#### F		TO 106	• SEE	96	TO 100	ABOVE **	**
5 9 7	103	TO 107		220	TO 224	1	5
*** F	OR 106	TO 110	• SEE	9	TO 13	ABOVE **	**
*** F	OR 107	TO 111	• SEE	2	TO 6	ABOVE **	**
_	OR 108	TO 112		1	TO 5	ABOVE **	**
	OR 109	TO 113		18	TO 22	ABOVE **	**
	OR 110	TO 114		8	TO 12		**
	OR 111	TO 115	-	9	TO 13	ABOVE **	**
	OR 112	TO 116		2	TO 6		**
	OR 113	TO 117	-	1	TO 5		**
* • • -	CR 114	TO 118		18	TO 22		**
	OR 115	TO 119	-	8			**
****	OR 116	TO 120	•				**
***	OR 117	TO 121		14	TO 18		**
****	CR 118	TO 122		15	TO 19		**
***	CR 119	TO 123	-	16	TO 20	ABOVE **	**
***	OR 120	TO 124		5	TO 9		**
***	CR 121	TO 125		6	TO 10		**
***	OR 122	TO 126		16			**
***	OR 123	TO 127		5	TO 9	ABOVE **	**
	OR 124	TO 128	•	14	TO 18	ABOVE **	**
59 a	127	TO 131		170	TO 174	1	5
	OR 127	TO 131	• SEE	127	TO 131	ABOVE **	**
***	OR 129	TO 133		8	TO 12	ABOVE **	**
***	OR 130	TO 134		9	TO 13		**
***	OR 131	TO 135		18			**
***	OR 132	TO 136	•	19			**
*** c	CR 133	TO 137		20	TO 24		**
***	OR 134	TO 138	•	9	TO 13		**
***	OR 135	TO 139		18	TO 22		**
***	CR 136	TO 140		19	TO 23		**
***	CR 138	TO 142	-	20	TO 24		**
****	OR 139	TO 143		9	TO 13		**
***	OR 140	TO 144		18	TO 22		**
	OR 141	TG 145	-	8			**
• '	UN 474			•			

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PATT	ERN	ı	NCTE	S	RELATED TO	1 C	10 T (ES	TES	S T	LENGTH
****	FOR	142	TO	146.	SEE	38	TO	42	ABOVE	***	*
****	FCR	143	TO	147.		6	TO	10	ABOVE	***	
***		144	TO	148.		16	TO		ABOVE	***	
****		145	TO	149.		1	TO	5	ABOVE	***	
****		146	TO	150.		18	TO	22	ABOVE	***	
***		147	TO	151.		8	TO	12	ABOVE	***	
***		148	TO	152.		9	TO	13	ABOVE	***	-
***		149	TO	153.	SEE	18	TO	22	ABOVE		
****		150	TO	154.	SEE	8	TO	12 42	ABOVE	***	
****		151	TO	155.	SEE SEE	38 6	TO TO	10	ABOVE	***	
****		152 153	TO TO	156. 157.	SEE	16	TO	20	ABOVE	***	
***		154	TO	158,		10	TO	5	ABOVE	***	
***		155	to	159.	SEE	18	TO	22	ABOVE	***	-
***		156	TO	160,	SEE	8	to	12	ABOVE	***	
***	FOR	157	TO	161,		9	TO	13	ABOVE	***	
***	FOR	163	τo	167,		5	TO	19	ABOVE	***	
***	FOR	164	TO	168.		6	TO	10	ABOVE	***	
***	FOR	165	TO	169.	SEE	16	TO	20	ABOVE	***	*
***	FOR	166	TO	170.	SEE	1	TO		ABOVE	***	*
***	FCR	167	TO	171.		2	TO	6	ABOVE	***	*
***	FOR	168	TO	172.	SEE	101	TO	105	ABOVE	***	*
***	FOR	170	TO	174.		127	TO	131	ABOVE	***	*
***	FOR	171	TO	175.		65	TO	69	ABOVE	***	*
***	FOR	172	TO	176.	SEE	1	TO	5	ABOVE	***	*
***	FOR	173	TO	177.	SEE	2	TO	6	ABOVE	***	*
****	FOR	174	TO	178.	SEE	5	TO	9	ABOVE	***	*
****	FOR	175	TO	179.	SEE	6	TO	10	ABOVE	***	*
****	FOR	176	TO	180.	SEE	16	TO	20	ABOVE	***	*
****	FOR	177	TO	181.	SEE	1	TO	5	ABOVE	***	*
59	9	178	TO	182		206	TO	210	1		5
60	0	178	TO	182		216	TO	220	1	-	5
60	ı	181	TO	185		213	TO	217	1		5
60 ***		181	TO	185		222	TO	226	1		. 5
***	FOR	181	TO	185.	SEE	181	TO	185	ABOVE	***	
****	FOR	182	TO	186.		2	TO	6	ABOVE	***	
***	FOR	183	TO	187.	SEE	5	TO TO	9	ABOVE	***	
***	FOR	184	TO	188.	SEE	14	TO	18 19	ABOVE	***	
***	FOR	185	TO	189.		15 16	TO		ABOVE	***	
***	FOR	186 187	TO TO	190.		5	TO	9	ABOVE	***	
***	FOR	188	TO	192.	SEE	6	TO	10	ABOVE	***	
****	FOR	189	to	193.		16	TO	20	ABOVE	***	
***	FOR FOR	190	TO	194.	SEE	10	TO	5		***	
***	FOR	191	TO	195	SEE	18	TO	22	ABOVE	***	
****	FOR	192	to	196		8	TO	12	ABOVE	***	
****	FCR	193	TO	197		_	TO	42	ABOVE	***	
***	FOR	194	TO	198.	SEE	6	TO	10	ABOVE	***	-
****	FOR	195	TO	199		16	TO	20	ABOVE	***	
***	FOR	196	TO	200		1	TO	5	ABOVE	***	*
***	FOR	197	TO	201	SEE		TO	22	ABOVE	***	*

PATT	ERN	,	NCTE	S	RELATED	TO	N	OTE	S	TES	т	LENGTH
****		198	TO	202,			-	TO		ABOVE	**1	
** * *		202	TO	206.			-	TO	24		**1	
****		203	TO	207				TO	13	ABOVE	***	
****	-	204	TO	208				TO TO	6 5	ABOVE	***	
****		205 206	TO TO	209			_	TO	182	ABOVE	**1	
****	FCR	207	TO	211.				TO	67		**1	
***		208	TO	212.				TO	68	ABOVE	***	
***		209	TO	213.				TO	69	ABOVE	***	
***		210	TO	214				τo	105	ABOVE	***	
41+=		213	TO	217			_	TO		ABOVE	***	
	FOR	216	TO	220				TO		ABOVE	***	**
***	FOR	217	TO	221.				TO	_	ABOVE	***	:
***	FOR	220	TO	224			3	TO	107	ABOVE	***	*
***	FOR	222	TO	226	SE	F 18	1	TO	185	ABOVE	***	*
***	FOR	223	TO	227.	SE	E	2	TO	6	ABOVE	***	*
****	FOR	224	TO	228.	SE	Ε	5	TO	9	ABOVE	***	*
### ** *	FOR	225	TO	229.	. SE			TO	10	ABOVE	**1	-
***	FOR	226	TO	230.				TO		ABOVE	***	
****	FCR	227	TO	231.				TO		ABOVE	***	
****	FCR	228	TO	232,			_	TO		ABOVE	***	-
***	FCR	229	TO	233•				TO	20	ABOVE	***	
****	FOR	230	TO	234				TO	9	ABOVE	***	
****	FOR	231	TO	235				TO	10	ABOVE	***	
****	FOR	232	TO TO	236,				TO TO	20 9	ABOVE	***	-
****	FOR FOR	233 234	TO	237			-	TO	-	ABOVE	***	
***	FOR	235	TO	239		-	-	TO	19		***	
****	FOR	236	τo	240		-		TO	20	ABOVE	***	
****	FOR	237	TO	241.				τo	5	ABOVE	***	
****	FOR	238	TO	242				TO	22	ABOVE	**1	: *
****	FOR	239	TO	243.			-	TO	23	ABOVE	***	k #
****	FOR	240	TO	244,	SE	E 2	0	TO	24	ABOVE	***	r \$
****	FOR	241	TO	245	SE	E	9	TO	13	ABOVE	***	*
****	FOR	242	10	246.	SE	E L	8	TO	22	ABOVE	**1	k ak
****	FOR	243	TO	247.	SE	E	8	TO	12	ABOVE	***	**
****	FOR	244	TO	248,				TO	42	ABOVE	***	
****	FCR	245	TO	249.				TO	10	ABOVE	***	
***	FOR	246	TC	250.				TO		ABOVE	***	
***	FOR	247	TO	251.			_	TO	5	ABOVE	***	
***	FOR	248	TO	252				TO	22		***	
***	FOR	249	TO	253•				TO	12	ABOVE	***	
***	FCR	250 251	TO TO	254				TO TO		ABOVE	**1	
****	FGR FOR	252	TO	255. 256.				TO	10 20	ABOVE	***	
****	FOR	253	TO	257				TO	5	ABOVE	**4	
***	FOR	254	TO	258				TO	22	ABOVE	***	
***	FOR	255	TO	259			9			ABOVE	***	· · · =
					JE	- •	•	. •				

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -TONAL CCNTOUR (ORIGINAL) WAS BEGUN AT 451 SECONDS INTO EXECUTION.

PAT TERN	NOTES		RELATED	TO	N	IOTE	s	TEST	L ENG TH
6 Q3 6 Q 4	1 TO 1 TO	6			11 29	TO TO	16 34	1	6
6 € 5 6 € 6	1 TO 1 TO	6 6			31 33	TO TO	36 38	1 1	6 6
607	1 70	6			52		57	î	6
6 🔾 8	1 TO	6				TO	76	1	6
6 😋 9	1 TO	6				TO	78	1	6
610	1 TO	6				TO	80	1	6
611	1 10	6			77		82	1	6
612 613	1 TO 1 TO	6 6				TO TO	84 86	1	6 6
614	1 TO	6			83	TO	88	1	6
615	1 TO	6				to	164	i	6
61 6	i to	6				TO	166	ī	6
61 7	1 TO	6			166	TO	171	1	6
6 3 8	1 TO	6			172		177	1	6
619	2 TO	7				TO	15	1	6
620	2 TO	7			22		27	1	6
62 <u>1</u>	2 TO 2 TO	7 7				TO TO	33 35	1	6 6
623	2 TO	7				TO	37	1	6
624	2 TO	7				TO	39	i	6
625	2 TO	7				TO	58	ī	6
626	2 TO	7			70	TO	75	1	6
627	2 TO	7				TO	77	1	6
658	2 TO	7				TO	79	1	6
629	2 10	7			76		81	1	6
630 631	2 TO	7				TO	83	1	6
632	2 TO 2 TO	7 7			80 82	TO TO	85 87	1	6 6
633	2 TO	7			107		112	i	6
634	2 TO	7				TO	117	î	6
635	2 TO	7			158	TO	163	ì	6
636	2 TO	7			160	TO	165	1	6
637	2 TO	7				TO	209	1	6
638 *** FOR	2 TO	7		_	214		219	1	. 6
639	3 TO	8.	SE	E	1	TO	. 6	ABOVE ***	-
640	4 TO 4 TO	9			12 84	TO	17 89	1	6 6
64	4 TO	9			162		167	i	6
642	4 TO	ģ				TO	178	î	6
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° 6 - 4	4 TO	9				TO	228	1	6
64 5	5 TO	10			85	TO	90	1	6

PA TTERN	NCTES		RELATED TO	NOT	ES	TE	ST LE	NG TH
£ 46	5 10	10		120 TO	125		ı	6
647	5 TO	10		163 TO	168		l	6
648 649	5 TO 5 TO	10		174 TO 187 TO	179 192		l l	6 6
6 5 0	5 TO	10		224 TO	229		ì	6
651	5 TO	10		227 TO	232		i	6
6 5 2	5 TO	10		230 TO	235	;	l	6
44** FOR	5 TO	10	SEE	5 TO	10	ABOVE	***	
653	6 TO	11		39 TO	44		L	6
654	7 10	12		40 TO	45		l	6
6 5 5	8 TO	13		41 TO 56 TO	46 61		l l	6
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66-6	9 TO	14		106 TO	111		l l	6
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66 8	9 TO	14		157 TO	162		i	6
66 9	9 TO	14		203 TO	208		ı	6
*** FOR	10 TO	15		2 TO	7	ABOVE		
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FOR	12 TO	17	, SEE	4 TO	9	ABOVE		,
670 671	13 TO 13 TO	18		123 TO 183 TO	128 188		l l	6 6
672	13 TO	18		233 TO	238		i L	6
673	14 TO	19		117 TO	122		i	6
674	14 TO	19		184 TO	189		i	6
€75	14 TO	19		234 TO	239	1	l	6
FOR	14 TO	19	, SEE	14 TO		ABOVE		
676	15 TO	20		118 TO	123		1	6
677 678	15 TO	20		185 TO 235 TO	190 240		l l	6 6
679	15 TO 16 TO	20 21		51 TO	56		l L	6
680	16 70	21		87 TO	92		i	6
681	16 TO	21		144 TO	149		i	6
682	16 TO	21		153 TO	158		1	6
683	16 TO	21		165 TO	170		l	6
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PATTERN	NCTES		RELATED	TO	,	NOTE	s	TE	ST	LENGTH
691	17 TO	22			35	TO	40	1	ı	6
692	17 TO	22			54	TO	59		l	6
693	17 TO	22			66	TO	71		l	6
694	17 TO	22			88	TO	93		l	6
6 5 5	17 70	22			108	TO	113	-	l	6
696	17 TO	22			113		118		l .	6
657	17 10	22				TO	150		L	6
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7 € 0 7 € 1	17 TO 17 TO	22			237	TO	201 242		L L	6
702	17 TO	22			247		252	-	l l	6
7 03	17 TO	22				TO	258		i	6
7 04	18 TO	23			24	TO	29		i	6
705	18 TO	23			43	τo	48	-	i	6
706	18 TO	23			92	TO	97		i	6
767	18 TO	23			131	TO	136	i		6
7 C 8	18 TO	23			135	TO	140		i	6
709	18 TO	23			197	TO	202		ì	6
710	18 TO	23			238	TO	243		ì	6
7 1 1	18 TO	23			254	TO	259	1	l	6
*** FOR	18 TO	23	, SE	E	18	TO	23	ABOVE	***	*
71 2	19 TO	24			25	TO	30	1	l	6
7 1 3	19 TO	24			44	TO	49	1	l	6
7 L 4	19 TO	24			93	TO	98	1	l	6
7 L 5	19 TO	24			132	TO	137	1	l	6
71 6	19 TO	24			239		244		l	6
**** FGR	19 TO	24	, SE	Ε		TO	24		***	
71 7	20 TO	25				TO	31		l	6
71.8	20 TO	25			45	TO	50		l	6
719	20 TO	25			133	TO	138		<u>l</u>	6
720	20 TO	25			138	TO	143	-	<u> </u>	6
721	20 TO	25			202		207		L	6
722	20 TO	25		_	240	TO	245	10045		6
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• • • • • • • • • • • • • • • • • • • •	22 TO 23 TO	27			17	TO	22	ABOVE	***	•
FOR FOR	23 TO 24 TO	28			18	TO	23	ABOVE	***	*
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**** FCR	27 TO	32			9	TO	14	ABOVE	***	*
*** 500	34 TO	39			2	TO	7	ABOVE	***	*
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723	36 TO	41		-	47	TO	52	1	l	6
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⁷ 26	36 TO	41			67	TO	72		l	6
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P ATTERN	NOTES		RELATED TO	٨	10 T E	S	TEST	LENGTH
771	50 TO	55		251	TO	256	1	6
**** FCR	51 TO	56,	SEE	16	TO	21	ABOVE ***	*
**** FOR	52 TO	57•		1	TO		ABOVE ***	
*** FOR	53 TO	58•	SEE	2	TO	-	ABOVE ***	
*** FOR	54 TO	59,	SEE	17	TO		ABOVE ***	-
*** FCR	55 TO	60+		36	TO		ABOVE ***	**
*** FOR	56 TO	61,	SEE	8	TO		ABOVE ***	*
*** * FOR	57 TO	62.		42	TO		ABOVE ***	-
** * ★ FCR	58 TO	63.		36	TO	-	ABOVE ***	•
*** * FOR	59 TO	64.		38	TO	42	ABOVE ***	
*** * FOR	60 TO	65.	SEE	207		212	1	6
772 773	63 TO 64 TO	68 69		208		213	i	6
7 73 7 74	64 TO 65 TO	70		171	TO	176	1	6
*** = FOR	66 TO	71.	SEE	17	TO	_	ABOVE ***	-
*** - FGR	67 TO	72.	SEE	36	TO	41		
*** - FCR	68 TO	73.	SEE	8	TO		ABOVE ***	*
*** FCR	69 TO	74.	SEF	9	TO		ABOVE ***	*
*** FOR	79 10	75.	SEE	ź		7	ABOVE ***	*
*** FOR	82 TO	87,	SEE		TO	7		*
*** FOR	83 TO	88.	SEE	1	TO		ABOVE ***	*
*** FOR	84 TO	89,	SEE	4	TO	9	ABOVE ***	
*** FOR	85 TO	90.	SEE	5	TO	10	ABOVE ***	*
**** FOR	86 TO	91.	SEE	50	TO	55	ABOVE ***	*
*** FOR	87 TO	92.	SEE	16	TO	21	ABOVE ***	*
*** FOR	88 TO	93.	SEE	17	TO	22	ABOVE ***	*
**** FOR	89 TO	94.	SEE	36	TO	41	ABOVE ***	*
**** FOR	90 TO	95.	SEE	8	TO	13	ABOVE ***	*
**** FCR	91 TO	96,	SEE	42	TO	47	ABOVE ***	*
**** FCR	92 TO	97.	SEE	18	TO	23	ABOVE ***	*
FOR	93 TO	98.	SEF	19	TO	24	ABOVE ***	*
FOR	106 TO	111.	SEF		TO		ABOVE ***	
FOR	1C7 TO	112.	SEE	_	TO		ABOVE ***	•
*** FOR	108 TO	113.	SEE	17	TO	22	AROVE ***	-
* • • • • • • • • • • • • • • • • • • •	109 TO	114.	SEE		TO	41		-
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	111 TO	116.	SEE	-	TO		ABOVE ***	· 🖚
*	112 TO	117.	SEE See	2 17	TO TO		ABOVE ***	-
FOR	113 TO	118.	SEE	36	TO		ABOVE ***	•
FOR	114 TO 115 TO	119.	SEE	37		_	ABOVE ***	*
	117 TO	122.	SEE	14	TO		ABOVE ***	
FOR	118 TO	123.	SEE		TO		ABOVE ***	
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FOR	120 TO	125.	SEE	5	TO		ABOVE ***	*
	121 TO	126.	SEE	50	TO		ABOVE ***	*
- 	122 TO	127.		119			ABOVE ***	*
FOR FOR	123 TO	128.	SEE	13	TO	18	ABOVE ***	*
3.								

PATTERN	NOTES	RELATED TO	NOTES	TEST	L ENG TH
≠	129 TO 134	• SEE	8 TO 13	ABOVE ***	:#
**** FOR	130 TO 135			ABOVE ***	
**** FOR	131 TO 136	•		ABOVE ***	**
**** FOR	132 TO 137		19 TO 24	ABOVE ***	k *
**** FOR	133 TO 138		20 TO 25	ABOVE ***	k 🛊
*** FCR	134 TO 139	SEE	42 TO 47	' ABOVE ***	k ajk
*** FOR	135 TO 140	SEE	18 TO 23	ABOVE ***	**
7 79	136 TO 141		198 TO 203	1	6
78 0	136 TO 141		255 TO 260	1	6
7 81	137 TO 142		201 TO 206	1	6
** * FOR	137 TO 142	SEE		ABOVE ***	k 🛊
*** → FOR	138 TO 143	SEE	20 TO 25	ABOVE ***	k 🕸
*** 🕶 FOR	139 TO 144	SEE	42 TO 47	ABOVE ***	**
*** 🕶 FOR	140 TO 145	SEF	36 TO 41	ABOVE ***	*
*** 🖚 FOR	141 TO 146	SEE	37 TO 42	2 ABOVE ***	K 🕸
*** 🖚 FOR	142 TO 147	SEE	38 TO 43	ABOVE ***	k:#k
*** FCR	143 TO 148	SEE	50 TO 59	ABOVE ***	: *
*** 🖚 FOR	144 TO 149	SEE	16 TO 21	A80VE ***	*
*** TOR	145 TO 150	SEE	17 TO 22	ABOVE ***	**
*** = FOR	146 TO 151	SEE		ABOVE ***	
*** FOR	147 TO 152	SEE		ABOVE ***	**
*** FOR	148 TO 153	SEE		ABOVE ***	*
*** FOR	149 TO 154	SEF		ABOVE ***	:
*** FCR	150 TO 155			ABOVE ***	
***= FOR	151 TO 156			ABOVE ***	-
*** FOR	152 TO 157			ABOVE ***	
***= FCR	153 TO 158			ABOVE ***	
*** FOR	154 TO 159			ABOVE ***	
**** FCR	155 TO 160			ABOVE ***	
FOR	156 TO 161			ABOVE ***	
FOR	157 TO 162			ABOVE ***	
FOR	162 TO 167			ABOVE ***	
FOR	163 TC 168	-		ABOVE ***	
FOR FOR	164 TO 169			ABOVE ***	
*** FOR	165 TO 170			ABOVE ***	
*** FOR	166 TO 171			ABOVE ***	
	171 TO 176			ABOVE ***	
*** FOR	172 10 177			ABOVE ***	
*** FOR	173 TO 178) ABOVE ***) ABOVE ***	
*** FOR	174 TO 179 175 TO 180	-		ABOVE ***	
++ FOR		•	16 TO 21		
782	176 TO 181	•	205 TO 210		6
783	177 TO 182		215 TO 220		6
784			213 TO 218		6
	181 TO 186		222 TO 227		6
~ * * * * * * * * * * * * * * * * * * *	182 TO 187			ABOVE ***	-
	183 TO 188			ABOVE ***	
	184 TO 189			ABOVE ***	
* * * * * * * * * * * * * * * * * * *	185 TO 190			ABOVE ***	
FOR	186 TO 191	-		ABOVE ***	
- rur	100 10 171	J C1.	11, 10 11		•

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
** ** FOR	187 TO 192	• SEE	5 T 0 10	ABOVE ****
≠ ≠ ≠ ≠ FOR	188 TO 193	SEE	50 TO 55	ABOVE ****
**** FOR	189 TO 194	SEF	16 TO 21	ABOVE ****
**** FCR	190 TO 195	SEE	17 TO 22	ABOVE ****
*** FOR	191 TO 196	SEE	36 TO 41	ABOVE ****
*** FOR	192 TO 197	SEE	37 TO 42	ABOVE ****
*** FCP	193 TO 198	SEE	38 TO 43	ABOVE ****
*** FOR	194 TO 199	•	50 TO 55	
*** * FOR	195 TO 200		16 TO 21	ABOVE ****
*** → FOR	196 TO 201		17 TO 22	ABOVE ****
*** > FCR	197 TO 202		18 TO 23	ABOVE ****
*** > FOR	198 TO 203		136 TO 141	ABOVE ****
*** FOR	201 TO 206		137 TO 142	ABOVE ****
+++ → FOR	202 TO 207	•	20 TO 25	
*** > FOR	203 TO 208			ABOVE ****
*** = FGR	204 TO 209		2 10 7	ABOVE ****
*** - FCR	205 TO 210	• SEE	177 TO 182	ABOVE ****
7 86	206 TO 211		216 TO 221	1 6
*** = FOR	207 TO 212		63 TO 68	
*** > FOR	208 TO 213			ABOVE **** ABOVE ****
	213 TO 218		181 TO 186	
*** - FOR	215 TO 220		177 TO 182	ABOVE **** ABOVE ****
	216 TO 221		206 TO 211	
	222 TO 227			ABOVE ****
	223 TO 228			ABOVE ****
	224 TO 229		5 TO 10	
	225 TO 230			
A .	226 TO 231		119 TO 124	
	227 TO 232		5 TO 10	
	228 TO 233 229 TO 234	-		ABOVE ****
FOR FOR		•	5 TO 10	ABOVE ****
*** FOR	230 TO 235 231 TO 236		50 TO 55	
*** FCR	231 TO 236			AROVE ****
*** FOR	232 TO 237	-	13 TO 18	
*** 500	234 TO 239		14 TO 19	
*** FOR	234 TO 239	-	15 to 20	
**** ECD	236 TO 241		16 TO 21	ABOVE ****
**** FCR	237 TO 242		17 TO 22	ABOVE ****
**** CC0	238 TO 242		18 TO 23	ABOVE ***
**** END	239 TO 244	-	19 TO 24	ABOVE ****
*** EDD	240 TO 245		20 TO 25	
*** 550	241 TO 246		42 TO 47	
- ** * * * * * * * * * * * * * * * * *	242 TO 247		36 TO 41	ABOVE ****
COD	243 TO 248	•	37 TO 42	ABOVE ****
-	244 TO 249		38 TO 43	ABOVE ****
	245 TO 250		50 TO 55	ABOVE ****
-	246 TO 251		16 TO 21	ABOVE ****
	247 TO 252		17 TO 22	ABOVE ****
COD	248 TO 253		36 TO 41	ABOVE ****
FCR	249 TO 254		37 TO 42	

PATT	ERN	١	ICTE	S RE	ELATED TO	1	OTES		TES	ST L	ENGTH
****					SEE	38	. –		ABOVE		
***					SEE	50			ABOVE		
****					SEE See	16 17			ABOVE		
****					SEE	18	TO	23	ABOVE	****	:

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 632 SECONDS INTO EXECUTION.

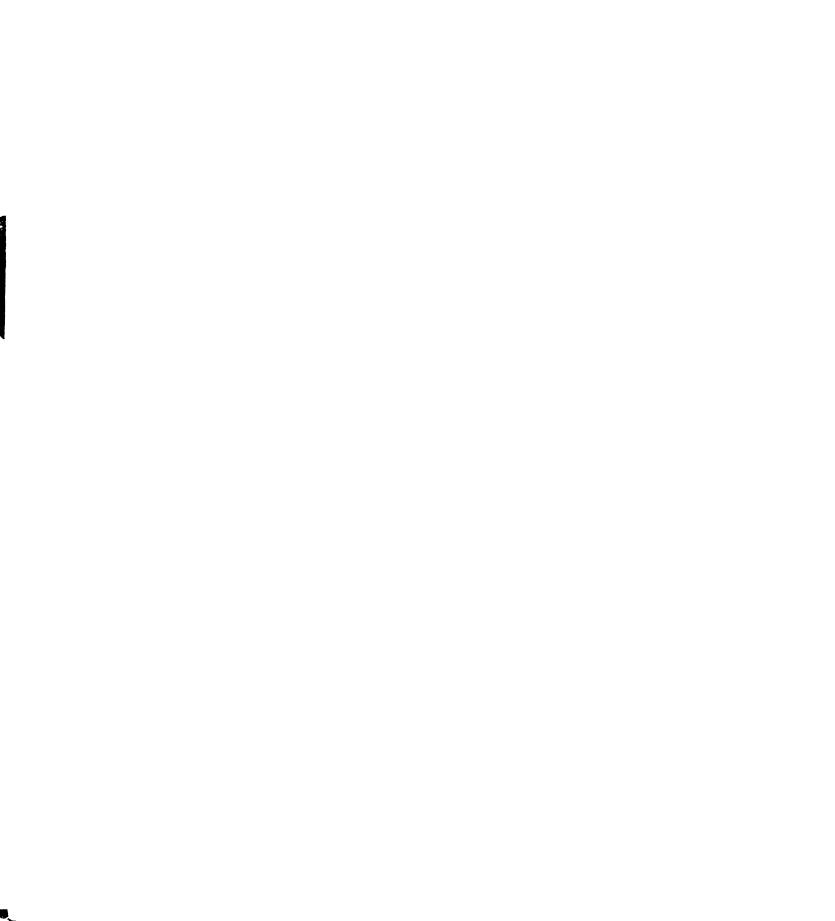
PATTERN	NOTES		RELATED	TC	١	NOTE	S	TEST	LENGTH
7 87 7 88	1 TO 1 TO	7			29 31	T0 T0	35 37	1	7 7
7 89	1 TO	7			33		39	1	7
7 90	1 TO	7			52		58	1	7
7 91	1 TO 1 TO	7 7			71 73	TO	77 79	1 1	7 7
753	1 10	7				TO	81	1	7
794	1 TO	7			77		83	ī	7
₹95	1 TO	7			79		85	1	7
7 96	1 TO	7			81	TO	87	1	7
7 57 7 98	1 TO	7			159		165	1	7 7
7 98	2 TO 2 TO	8 8			10 28	TO TO	16 34	1 1	7
8 00	2 10	8			30		36	ī	7
8 C1	2 TO	8			32	TO	38	1	7
5 02	2 TO	8			70		76	1	7
₽ C3	2 TO	8			72		78	1	7
8 C4 8 05	2 TO 2 TO	8			74 76	TO TO	80 82	1 1	7 7
8 C6	2 TO	8 8			78		84	1	7
8 C7	2 10	8			80		86	î	7
8 C8	2 TO	8			82	-	88	1	7
B C9	2 TO	8			158		164	1	7
P 10	2 10	8			160		166	1	7
811	4 TO	10			84		90	1	7
812 813	4 TO 4 TO	10			162 173		168 179	1 1	7 7
814	4 10	10			223		229	i	ż
815	6 TO	12			39		45	ī	7
£16	7 TO	13			40		46	1	7
817	8 TO	14			68		74	1	7
818	8 TO	14			110		116	1	7
819 820	8 TO 9 TO	14			156 21		162 27	1	7 7
821	9 10	15			27		33	i	7
822	9 TO	15			69		75	ī	7
823	9 TO	15			106	TO	112	1	7
824	9 10	15			111		117	1	7
825 824	9 TO	15			157		163	1	7
826 827	9 10 13 TO	15 19			203 183	TO	209 189	1 1	7 7
e 28	13 TO	19				TO	239	1	7
8 29	14 TO	20			117		123	ī	7
830	14 TO	20			184	_	190	1	7

P ATTERN	NOTES		RELATED	TO		NOTE	S	TEST	LENGTH
831	14 TO	20			234		240	1	7
<i>8</i> 32	15 TO	21				TO	241	1	7
£33	16 TO	22			87		93	1	7
834	16 10	22			144 153		150	1	7 7
<i>8</i> 35	16 TO 16 TO	22			189		159 195	1	7
₽36 ₽37	16 TO 16 TO	22			195		201	1	7
£38	16 TO	22			236		242	i	'n
8 39	16 10	22			246		252	î	7
8 40	16 TO	22			252		258	ī	7
8 41	17 TO	23			23	TO	29	1	7
2 42	17 TO	23			196	TO	202	1	7
2 43	17 TO	23			237		243	1	7
2 44	17 TO	23			253		259	1	7
2 45	18 TO	24			24		30	1	7
8 46	18 TO	24			43		49	1	7
E 41	18 TO	24			92		98	1	7
2 48	18 TO	24			131		137 244	1	7 7
83 -49 82 -50	18 TO 19 TO	24			238 25		31	1	7
₽ 50 ₽ 51	19 TO 19 TO	25 25				TO	50	1	7
8 52	19 TO	25			132		138	i	ż
8 53	19 10	25			239		245	ī	7
8 54	20 TO	26				TO	32	ī	7
e -5 5	20 TO	26			202		208	1	7
P 56	36 TO	42			47	TO	53	1	7
8 57	36 TO	42			58	TO	64	1	7
8° 58	36 TO	42			114		120	1	7
8 59	36 TO	42			140		146	1	7
8 60	36 TO	42			149		155	1	7
8 61	36 TO	42			191		197	1 1	7 7
8 € 2 8 € 3	36 TO 36 TO	42			242 248		248 254	1	7
864	36 10 37 TO	42 43				TO	54	1	7
865	37 TO	43				TO	65	1	7
866	37 TO	43			141		147	i	7
₹67	37 TO	43			150		156	ĩ	7
868	37 TO	43			192		198	ī	7
869	37 TO	43			243	TO	249	1	7
87C	37 TO	43			249	TO	255	1	7
871	42 TO	48			91		97	1	7
e 72	42 TO	48			130		136	1	7
873	42 TO	48			134		140	1	7
874	50 TO	56			86		92	1	7
875 876	50 TO	56			143		149	1	7 7
877	50 TO 50 TO	56 56			152 164		158 170	1 1	7
878	50 TO	56			-	TO	181	1	7
£79	50 TO	56			188		194	î	'n
880	50 TO	56			194		200	î	7
881	50 TO	56			245		251	ī	7
	-				_				

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
882	50 TO 56		251 TO 257	1	7
883	63 TO 69		207 TO 213	1	7
884	119 TO 125		186 TO 192	1	7
885	119 TO 125		226 TO 232	1	7
886	119 TO 125		229 TO 235	1	7
2 87	137 TO 143		201 TO 207	1	7
888	181 TO 187	;	222 TO 228	1	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 656 SECONDS INTO FXECUTION.

PATTERN	NCTE	S	RELATED TO	NOTE	s	TEST	LENGTH
€89	1 70	8		29 T 0	36	1	8
# 90	1 TO	8		31 TO	38	1	8
891	1 TO	8		71 TO	78	1	8
8 92	1 TO	8		73 TO	80	1	8
293	1 10	8		75 TO	82	1	8
8 94	1 10	8		77 TO 79 TO	84	1	8
29 95	1 TO 1 TO	8		79 TO 81 TO	86 88	1 1	8 8
8 90	1 TO	8 8		159 TO	166	1	8
8 98	2 TO	9		10 10	17	1	8
8 99	2 10	ģ		82 TO	89	i	8
900	2 TO	ģ		160 TO	167	ī	8
901	6 TO	13		39 TO	46	ī	8
S C2	8 TO	15		68 TO	75	1	8
S 03	8 TO	15		110 TO	117	1	8
9 04	8 TO	15		156 TO	163	1	8
S 05	9 TO	16		27 TO	34	1	8
S 06	9 T O	16		69 TO	76	1	8
S C7	9 TO	16		157 TO	164	1	8
9 08	13 TO	20		183 TO	190	1	8
S 09	13 TO	20		233 TO	240	1	8
S 10	14 TO	21		234 TO	241	1	8
9 11 9 12	15 TO	22		235 TO 195 TO	242	1	8
9 12 9 13	16 TO 16 TO	23		195 TO 236 TO	20 <i>2</i> 243	1 1	8 8
913 914	16 TO 16 TO	23 23		250 TO	259	1	8
915	17 TO	24		237 TO	244	i	8
916	18 70	25		43 TO	50	i	8
917	18 TO	25		131 TO	138	i	8
518	18 TO	25		238 TO	245	ī	8
919	20 TO	27		202 TO	209	ī	8
\$20	36 TO	43		47 TO	54	1	8
921	36 TO	43		58 TO	65	1	8
922	36 TO	43		140 TO	147	1	8
923	36 TO	43		149 TO	156	1	8
924	36 TO	43		191 TO	198	1	8
925	36 10	43		242 TO	249	1	8
926	36 TO	43		248 TO	255	1	8
927 920	42 TO	49		91 TO	98	1	8
9 28 9 29	42 TO 50 TO	49 57		130 TO 164 TO	137 171	1 1	8 8
5 30	119 TO	126		186 TO	193	1	8
931	119 TO	126		226 TO	233	1	8
9 32	119 TO	126		229 TO	236	i	8
	117 .0	120		227 10	230	•	Ü



SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 675 SECONDS INTO EXECUTION.

P A TTERN	NOTE	S	RELATED	TO	ľ	NOTE	S	TEST	LENGTH
~ 33	1 TO	9			81	TO	89	1	9
9 34	1 TO	9			159	TO	167	1	9
935	2 TO	10			82	TO	90	1	9
≤ 36	2 10	10			160	TO	168	1	9
-9 37	8 TO	16			68	TO	76	1	9
₹38	8 TO	16			156	TO	164	1	9
939	13 TO	21			233	TO	241	1	9
9 40	14 TO	22			234	TO	242	1	9
941	15 TO	23			235	TO	243	1	9
942	16 TO	24			236	TO	244	1	9
943	17 TO	25			237	TO	245	1	9
944	42 TO	50			130	TO	138	1	9
945	119 TO	127			226	TO	234	1	9
946	119 TO	127			229	TO	237	1	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 691 SECONDS INTO EXECUTION.

PATTERN	,	NCTE:	S	RELATED	TO	,	NOTE	S	TEST	L ENG TH
947	1	TO	10			81	TO	90	1	10
∽ 48	1	TO	10			159	TO	168	1	10
5 49	13	TO	22			233	TO	242	1	10
~ 50	14	TO	23			234	TO	243	1	10
~ 951	15	TO	24			235	TO	244	1	10
952	16	TO	25			236	TO	245	1	10
~ 53	42	TO	51			130	TO	139	1	10
\$ 54	119	TO	128			229	TO	238	1	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 7C7 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
≤ 55	13 TO	23	233 TO 243	1	11
956	14 TO	24	234 TO 244	1	11
957	15 TO	25	235 TO 245	1	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 722 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
958	13 TO	24	233 TO 244	1	
959	14 TO	25	234 TO 245	1	

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 737 SECONDS INTO EXECUTION.

PA TTERN	NOTES	RELATED	TO NOTE	S	TEST	LENGTH
€60	13 TO	25	222 TO	245	,	12

SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -TONAL CONTOUR (ORIGINAL) WAS BEGUN AT 754 SECONDS INTO EXECUTION.

PATTERN NCTES RELATED TO NOTES TEST LENGTH

E AC OF TYPE I LISTING. TOTAL OF 960 PATTERNS LOCATED.

*** TYPE II LISTING ***

EDGARC VARESE DENSITY 21.5 FOR SOLO FLUTF TC NAL CENTOUR (ORIGINAL)

	LOCAT OF FI	-	TOTAL Number of	LENGTH OF
	OCCURR	ENCE	OCCURR ENCES	PATTERN
CRIGINAL PATTERN	13 TO	25	2	13
SUBPATTERN	18 TC	25	4	8
SUBPATTERN	16 TC	23	4	8
SUBPATTERN	19 TO	25	5	7
SUPPATTERN	18 TC	24	6	7
SUPPATTERN	17 TC	23	5	7
SUBPATTERN	16 TO	22	9	7
SUBPATTERN	14 TO	20	4	7
SUBPATTERN	20 TC	25	7	6
SUBPATTERN	19 TC	24	6	6
SLEPATTERN	18 TC	23	9	6
SUBPATTERN	17 TO	22	15	6
SUBPATTERN	16 TC	21	12	6
SUPPATTERN	15 TC	20	4	6
SUBPATTERN	14 TO	19	4	6
SUBPATTERN	13 TO	18	4	6
SUPPATTERN	20 TO	24	8	5
SUBPATTERN	19 TC	23	9	5
SUPPATTERN	18 TC	22	24	5
SUBPATTERN	16 TC	20	19	5 5 5 5
SUBPATTERN	15 TO	19	4	5
SUBPATTERN	14 TO	18	5	5

^{◆ ◆ ◆ ★} TEST 1 COMPLETED AT 930 SECONDS INTO EXECUTION ****

* * ******* MUSIC MELODIC PATTERN ANALYSIS *********

EDGAR VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 2
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

N C TE		1 TH				e 7		e /.	E 4	e 7	5 1	5 7	E 4	67
2.0	74	26	21	20	21	21	ככ	⊅ 4	96	21	21	21	96	51
► € 1E		16 TH 51				50	60	57	60	5.7	60	62	63	62
						,,,	00	٠,	00	٠.	00	02	U	02
N C TE		31 TH 63				63	62	64	70	64	58	64	70	53
						-								
N CI TE		46 IH 71				66	65	67	65	67	65	66	68	55
NC TE	ς ,	61 TH	B UNG	н	75									
		61				59	61	58	61	75	74	75	74	75
NC TE	s	76 TH	ROUG	н	90									
74	75	74	75	74	75	74	75	74	75	74	76	61	60	61
NC TE														
59	60	61	59	60	74	75	74	74	74	54	51	54	51	51
NCTE							.	٠,		5.3	, ,	21	00	
21	24	64	21	04	21	72	28	24	28	52	65	91	80	68
NCTE														
67	81	80	68	81	80	68	67	67	57	68	69	56	57	58
NCTE	S 1	36 TH	ROUG	H 1	150									
55	54	60	70	73	83	73	8 C	83	80	73	83	73	80	83
NC TE														
73	8 C	83	80	73	83	73	80	83	80	83	80	83	80	83
NC TES	1	66 TH	RCUG	H 1	180									
80	73	74	65	74	65	65	64	65	63	65	64	63	65	63
CTES	1	81 TH	RCUG	н 1	195									
64	€4	65	63	65	61	56	55	57	56	55	57	55	56	57

■ F FCLLOWING TYPES OF PATTERN HAVE BEEN DELETED FRCM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

The interval tables appearing with Tests 2 through 8 of Density
21.5 would be identical to the tables shown with Test 1. In order
to reduce the size of this appendix, these interval tables have been omitted.

*** TYPE I LISTING ***

EDGAR VARESE

DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 29 SECONDS INTO EXECUTION.

PATTERN	NOTES		RELATED TO	١	OTE	S	TEST	LENGTH
1	1 TO	3		8	TO	10	2	3
?	1 TO	3		37	TO	39	2	3
3	1 TO	3		52	TO	54	2	3 3
4	1 10	3		85	TO	87	2	3
5	1 TO	3		177	TO	179	2	3
6	1 TC	3		187	TO	189	2	3
7	1 TO	3		190	TO	192	2	3 3 3
8	1 TO	3		196	TO	198	2	3
9	2 TO	4		197	TO	199	2 2	3 3
10	5 TO	7		136 198	TO TO	138 200	2	3
11 12	5 TO 7 TO	7 9		236	TO	238	2	3
*** FGR		10.	SEE	230	TO	238	ABOVE ***	
13	8 TO 9 TO	11	35.5	21	TO	23	2	3
14	9 TO	11		27	TO	29	2	3
15	9 10	11		241	TO	243	2	3
16	11 TO	13		19	TO	21	2	
17	11 TO	13		41	TO	43	2	3 3 3
18	11 10	13		247	TO	249	2	วั
19	13 TO	15		29	TO	31	2	3
23	13 TO	15		31	TO	33	2	3
21	13 TO	15		33	TO	35	2	3 3 3 3 3 3
22	13 TO	15		35	TO	37	2	3
23	13 TO	15		63	TO	65	2	3
24	13 TO	15		71	TO	73	2	3
25	13 TO	15		73	TO	75	2	3
26	13 TO	15		75	TO	77	2	3
27	13 TO	15		77	TO	79	2	3 3
28	13 TO	15		79	TO	81	2	3
29	13 TO	15		81	TO	83	2	3 3
30	13 TO	15		83	TO	85	2	3
31	13 TO	15		88	TO	90	2	3 3
32	13 TO	15		172	TO	174	2	3
33	14 TO	16		28	TO	30	2	3 3 3 3
34 35	14 TO	16		30	TO	32	2	3
36	14 TO	16		32	TO	34	?	3
37	14 TO	16		34	TO	36	2	3
38	14 TO	16		36	TO	38	2	3
39	14 TO	16		72	TO	74	2	3
	14 TO	16		74	TO	76	2	3 3 3
40	14 TO	16		76	TO	78	2 2	3
41	14 TO	16		18	TO	80	2	5

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
42	14 TO 16		80 TO 82	2 3
43	14 TO 16		82 TO 84	2 3
44	14 TO 16		84 TO 86	2 3
45	14 TO 16		96 TO 98	2 3 2 3
46 47	14 TO 16 18 TO 20		39 TO 41	2 3
**** FOR	19 TO 21	• SEE	11 70 13	
**** FCR	21 TO 23	-	9 10 11	ABOVE ****
48	22 TO 24	• 366	242 TO 244	2 3
49	23 TO 25		25 TO 27	2 3
50	23 TO 25		68 TO 70	2 3
51	23 TO 25		101 TO 103	2 3
52	23 TO 25		159 TO 161	2 3
53	23 TO 25		161 TO 163	2 3
54	23 TO 25		163 TO 165	2 3
55	23 TO 25		207 TO 209	2 3
56	23 TO 25		210 TO 212	2 3
57	23 TO 25		215 TO 217	2 3
58	23 TO 25		217 TO 219	2 3
59	23 TO 25		239 TO 241	2 3
60	23 TO 25		243 TO 245	2 3
61	24 TO 26		102 TO 104	2 3
62	24 TO 26		143 TO 145	2 3
63	24 10 26		152 TO 154 158 TO 160	2 3 2 3
64 65	24 TO 26		160 TO 162	2 3
66	24 TO 26		162 TO 164	2 3
67	24 TO 26		164 TO 166	2 3
68	24 TO 26		206 TO 208	2 3
69	24 10 26		211 TO 213	2 3
70	24 TO 26		214 TO 216	2 3
71	24 TO 26		216 TO 218	2 3
72	24 TO 26		238 TD 240	2 3
**** FOR	25 TO 27	• SEE	23 TO 25	ABOVE ****
73	26 TO 28		240 TO 242	2 3
**** FOR	27 TO 29	• SEE	9 TO 11	ABOVE ****
**** FCR	28 TO 30		14 TO 16	ABOVE ****
**** FOR	29 TO 31	•	13 TO 15	
**** FCR	30 TO 32		14 TO 16	APOVE ****
**** FOR	31 TO 33	•	13 TO 15	
**** FCR	32 TO 34	•	14 TO 16	
**** FOR	33 TO 35			ABOVE **** ABOVE ****
**** FOR **** FCR	34 TO 36 35 TO 37	•	14 TO 16 13 TO 15	• -
**** FOR	36 TO 38		14 TO 16	ABOVE ****
**** FOR	37 TO 39		1 70 3	
74	38 10 40	, 50.1	262 TO 264	
**** FCR	39 TO 41	• SEE	18 TO 20	
**** FCR	41 TO 43		11 70 13	
75	42 TO 44		45 TO 47	2 3
76	42 TO 44		46 TO 48	2 3

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	45 TO	47. SEE		ABOVE ****
**** FOR	46 TO	48. SEE	42 TO 44	ABOVE ****
77	47 TO	49	50 TO 52	2 3
78	48 TO	50	123 TO 125	2 3
**** FOR	50 TO	52. SEE	47 TO 49	ABOVE ****
79	51 TO	53	119 TO 121 126 TO 128	2 3 2 3
80	51 TO 52 TO	53 54• SEE	1 70 3	AROVE ****
**** FCR 81	52 TO	55	55 TO 57	2 3
82	53 TO	55	178 TO 180	2 3
83	53 TO	55	191 TO 193	2 3
84	54 TO	56	66 TD 68	2 3
85	54 TO	56	174 TO 176	2 3
86	54 10	56	183 TO 185	2 3
**** FCR	55 TO	57. SEE	53 TO 55	ABOVE ****
87	56 TO	58	90 TO 92	2 3
88	56 TO	58	93 TO 95	2 3
89	56 TO	58	179 TO 181	2 3
90	56 TO	58	192 TO 194	2 3
91	59 TO	61	110 TO 112	2 3
92	59 TO	61	132 TO 134	2 3
**** FOR	63 TO	65, SEE	13 TO 15	ABOVE ****
93	64 TO	66	180 TO 182	2 3
**** FOR	66 TO	68, SEE	54 TO 56	ABOVE ****
**** FCR	68 TO	70. SEE	23 TO 25	ABOVE ****
94	69 TO	71	244 TO 246	2 3
95	70 TO	72	121 TO 123	2 3
**** FOR	71 TO	73. SEE	13 TO 15	ABOVE ****
**** FOR	72 TC	74. SEE	14 TO 16	ABOVE ****
**** FCR	73 TO	75. SEE		ABOVE ****
**** FCR	74 TO	76. SEE		ABOVE ****
**** FOR	75 TO	77. SEE	13 TO 15	
**** FCR	76 TO	78. SEE	14 TO 16	
**** FOR	77 TO	79. SEE		A80VE ****
**** FOR	78 TO	80. SEE		ABOVE ****
**** FGR	79 TO	81. SEE		ABOVE ****
4*** FC8	80 TO	82. SEE		ABOVE ****
**** FGR	81 TC	83. SEE		ABOVE ****
**** FOR	82 TO	84. SEE		ABOVE ****
**** FOR	83 TO	85. SEE	13 TO 15	ABOVE ****
**** FOR	84 TO	86. SEE		ABOVE ****
**** FOR	85 TO	87. SEE	1 TO 3	ABOVE ****
**** FCR	88 TC	90. SEE	13 TO 15	ABOVE ****
96	89 10	91	92 TO 94	2 3
57	89 TO	91	173 TO 175	2 3
98	89 TO	91	182 TO 184	2 3
59 **** 500	89 TO	91	223 TO 225 56 TO 58	2 3
**** FCR	90 TO	92. SEE	56 TO 58 133 TO 135	ABOVE **** 2 3
100	91 TC	93	134 TO 136	2 3
101	91 TG	93		2 3
102	91 TO	93	193 TO 195	2 3

FATTERN	NCTES RELAT	ren to	NOTES	TEST LENGTH
PATIERN	NCIES RELAT	100 10	NOTES	1231 ELMOTH
**** FGR	92 TO 94.	SEE	89 TO 91	ABOVE ****
**** FOR	93 TO 95.	SEE	56 TO 58	ABOVE ****
**** FCR	96 TO 98.	SEE	14 TO 16	ABOVE ****
103	57 TO 99		127 TO 129	2 3
1 C4	98 TO 100		104 TO 106	2 3
105	98 TO 100		221 TO 223	
**** FCR	101 TO 103.	SEE		ABOVE ****
**** FCR	102 TO 104.			ABOVE ****
106	103 TO 105		212 TO 214	
**** FOR	104 TC 106.	SEE	98 TO 100	ABOVE ****
107	105 TO 107		213 TO 215	2 3 2 3
108	1G6 TO 108		139 TO 141	2 3
**** FOR	110 TO 112.			ABOVE ****
109	118 TO 120		122 TO 124	
110	118 TO 120	SEE	125 TO 127	
**** FOR	119 TO 121.	SEE	51 TO 53	ABOVE ****
**** FCR		SEE		ABOVE ****
_	122 TO 124.	SEE	118 10 120	ABOVE ****
**** FCR	123 TO 125.			ABOVE ****
**** FCR	125 TO 127.	SEE	118 TO 120	ABOVE ****
	126 TO 128.	SEE	51 10 53	ABUVE ****
**** FOR	127 TO 129.	25E	57 10 99	ABOVE ****
**** FOR	132 TO 134.	SEE	29 10 61	ABOVE ****
**** FOR	133 TO 135.	SEE	51 TO 53 97 TO 99 59 TO 61 91 TO 93 91 TO 93 5 TO 7	ABOVE ++++
**** FCR	134 TO 136. 136 TO 138.	3EE	51 10 73 5 TO 7	ABOVE ***
**** FOR **** FCR	136 TO 138. 139 TO 141.	SEE	106 70 108	ABOVE ****
111	140 TO 142		144 TO 149	
112	140 TO 142		155 TO 157 251 TO 253 147 TO 149 150 TO 152 156 TO 158	2 3 2 3
113	140 TO 142		251 TO 253	2 3
114	140 TO 142 141 TO 143		147 TO 149	
115	141 TO 143		150 TO 152	2 3
116	141 TO 143 141 TO 143 142 TO 144		156 TO 158	2
117	142 TO 144		148 TO 150	2 3
118	142 TO 144		151 TO 153	2 3 2 3
119	142 TO 144		157 TO 159	2 3
**** FCR	143 TO 145.	SEE	24 TO 26	ABOVE ****
120	144 TO 146		153 TO 155	
121	144 TO 146		165 TO 167	2 3
122	145 TO 147		154 TO 156	2 3
**** FOR	146 TO 148.	SEE	140 TO 142	ABOVE ****
**** FOR	147 TO 149.	SEE	141 TO 143	ABOVE ****
**** FCR	148 TO 150.			ABOVE ****
	150 TC 152.	SEE	141 TO 143	ABOVE ****
**** FOR	151 TO 153.	SEE	142 TO 144	ABOVE ****
**** FOR	152 TO 154.	SEE	24 TO 26	ABOVE ****
**** FOR	153 TO 155.	SEE	144 TO 146	ABOVE ****
**** FCR	154 TO 156.	SEE		ABOVE ****
**** FOR		SEE	140 10 142	ABOVE ****
**** FOR	156 TO 158.	SEE	141 TO 143	ABOVE ****
**** FGR	157 TO 159.	SEE	142 TO 144	A80VE ****

PATTERN	NCTES	RELATED TC	NOTES		TEST	LENGTH
**** FOR	158 TO 160	•	24 TO	26 AB0	. –	
**** FCR	159 TO 161		23 TO	25 ABO		
**** FOR	160 TO 162	-	24 TO	26 ABO		
**** FOR	161 TO 163	•	23 10	25 ABO	. –	•
**** FOR	162 TO 164		24 TO 23 TO	26 ABC		
**** FOR	163 TO 165			25 ABC		
**** FOR **** FCR	164 TO 166 165 TO 167			146 ABC		•
**** FGR	165 TO 167		13 10	15 ABC		
4*** FOR	172 TO 174	-	89 TO	91 ABO		-
**** FOR	174 TO 176		54 TO		VE ***	
123	175 10 177	• 366		190	2	. 3
124	176 TO 178		-	191	2	3
125	176 TO 178			197	2	3
**** FOR	177 TO 179		1 10		VE ***	_
**** FOR	178 TO 180	-	53 TO	55 ABO		
**** FOR	179 TO 181	•	56 TO	58 ABO		*
**** FCR	180 TO 182		64 TO	66 ABC	VE ***	*
126	181 TO 183			224	2	3
**** FOR	182 TO 184		89 TO	91 ABC	VE ***	*
**** FOR	183 TO 185	SEE	54 TO	56 ABO	VE ***	*
**** FCR	187 TO 189	 SEE 	1 TO	3 AB0	VE ***	*
**** FOR	188 TO 190	SEE		177 ABC	VE ***	*
**** FOR	189 TO 191	SEE	176 TO	178 ABO	VE ***	*
**** FCR	190 TO 192	SEE	1 TO	3 ABC		
**** FCR	191 TO 193	SEE	53 TO	55 ABO		*
**** FOR	192 TO 194	•	56 TO	58 ABC		
**** FCR	193 TO 195	•	91 TO	93 ABO	. –	
**** FOR	194 TO 196		14 TO	16 ABC		
**** FCR	195 TO 197			178 ABC		
**** FOR	196 TO 198		1 10	3 ABC		•
**** FCR	197 TO 199		2 10	4 A B C		-
**** FOR	198 TO 200		5 TO	7 AB0		
**** FOR	206 TO 208		24 TO	26 ABO		
**** FOR	207 TO 209	-	23 TO		NE ***	
127	2C8 TO 210			220	2 VF ***	. 3
**** FCR	210 TO 212 211 TO 213	•	23 TO 24 TO	25 ABO 26 ABO		
**** FOR **** FOR	211 TO 213 212 TO 214	•		105 ABO		
**** FCR	212 TO 214			107 ABC		
**** FOR	214 TO 216	•	24 TO	26 ABC		
**** FCR	215 TO 217	•	23 TO	25 ABO		
**** FCR	216 TC 218		24 TO	26 ABO		
**** FOR	217 TO 219		23 TO	25 ABC		*
**** FCR	218 TO 220			210 ABO		*
**** FGR	221 TO 223			100 ABC		*
**** FOR	222 TO 224			183 ABC		*
**** FOR	223 TO 225		89 TO		VE ***	*
128	226 TC 228	•		231	2	3
129	226 TO 228			234	2	3
13c	227 10 229			232	2	3
-						

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
131	227 TO 229		233 TO 235	2	3
132	228 TO 230		231 TO 233	2	3 3
**** FOR	229 TO 231	, SEE	226 TO 228	ABOVE ***	
**** FOR	230 TO 232	• SEF	227 TO 229	ABOVE ***	k 🛊
**** FOR	231 TO 233	• SEE	228 TO 230	ABOVE ***	**
**** FOR	232 TO 234		226 TO 228	ABOVE ***	**
**** FCR	233 TO 235		227 TO 229	ABOVE ***	t 🛊
**** FOR	236 TO 238		7 TO 9	ABOVE ***	k. #
**** FOR	238 TO 240		24 TO 26		
**** FOR	239 TO 241	-		ABOVE ***	
**** FOR	240 TO 242	-	26 TO 28		
**** FOR	241 TO 243		9 TO 11	ABOVE ***	
**** FGR	242 TO 244		22 TO 24	· · · · · · · ·	
**** FOR	243 TO 245		23 TO 25		
**** FOR	244 TO 246		69 TO 71	ABOVE ***	-
**** FOR			11 TO 13	ABOVE ***	
				A DO V C	-
**** FOR	251 TO 253	, SEE	140 TO 142	ABOVE ***	· T

SEARCH FOR PATTERNS CF 4 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 195 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	L ENG TH
133	1 TO 4		196 TO 199		4
134	13 TO 16		29 TO 32		4
135	13 TO 16		31 TO 34	-	4
136	13 TO 16 13 TO 16		33 TO 36		4
137 138	13 TO 16		71 TO 74		4
139	13 TO 16		73 TO 76		4
140	13 70 16		75 TO 78		4
141	13 TO 16		77 TO 80		4
142	13 TO 16		79 TO 82	? 2	4
143	13 TO 16		81 TO 84		4
144	13 TO 16		83 TO 86		4
145	21 TO 24		241 TO 244		4
146	22 TO 25		242 TO 245		4
147	23 10 26		101 TO 104		4
148	23 TO 26 23 TO 26		159 TO 162		4
149 150	23 TO 26		163 TO 166		4
151	23 TO 26		210 TO 213		4
152	23 TO 26		215 TO 218		4
153	24 TO 27		158 TO 161		4
154	24 TO 27		160 TO 163	3 2	4
155	24 10 27		162 TO 165		4
156	24 TO 27		206 TO 209		4
157	24 TO 27		214 TO 21		4
158	24 TO 27		216 TO 219		4
159	24 10 27		238 TO 241 239 TO 242		4
160 161	25 TO 28 26 TO 29		239 TO 242 240 TO 243		4
162	28 TO 31		32 TO 35		4
163	28 TO 31		34 TO 31	7 2	4
164	28 TO 31		72 TO 75		4
165	28 TO 31		74 TO 7		4
166	28 10 31		76 TO 79		4
167	28 TO 31		78 TO 81		4
168	28 TO 31		80 TO 83		4
169	28 TO 31		82 TO 85		. 4
**** FOR	29 TO 32		13 70 16		
**** FOR	30 TO 33 31 TO 34		28 TO 31		r k
**** FCR **** FCR	31 TO 34 32 TO 35	•	28 TO 31		k
**** FOR	33 TO 36	•	13 TO 16		
**** FCR	34 TO 37		28 TO 31		k
**** FCR	35 TO 38		13 TO 16		•

PATTERN	NCTES	RE	LATED TO	NOTE	S	TEST L	FNGTH
170	36 TO	39		84 TO	87	2	4
171	52 TO	55		177 TO	180	2	4
172	52 TO	55		190 TO	193	2	4
173	55 T O	58		178 TO	181	2	4
174	55 TO	58		191 TO	194	2	4
175	68 TO	71		243 TO	246	2	4
**** FGR	71 TO	74.	SEF	13 TO	16	AROVE ****	
**** FOR	72 TO	75.	SEE	28 TO	31	ABOVE ****	
**** FOR	73 TO	76.	SEE	13 TO	16	ABOVE ****	
**** FOR	74 TO	77.	SEE	28 TO	31	ABOVE ***	
**** FOR	75 TO	78.	SEE	13 TO	16	ABOVE ***	
**** FOR	76 TO	79.	SEE	28 TO	31	ABOVE ***	
**** FOR	77 TO	80.	SEE	13 TO	16	ABOVE ****	
**** FOR	78 TO	81.	SEE	28 TO	31	ABOVE ***	
**** FOR	79 TO	82.	SEE	13 TO	16	ABOVE ***	
**** FCR	80 TO	83.	SEE	28 TO	31	ABOVE ****	
**** FCR	81 TO	84.	SEF	13 TO	16	ABOVE ***	
**** FOR	82 TO	85.	SEE	28 TO	31	ABOVE ***	
**** FOR	83 TO	86.	SEE	13 TO	16	ABOVE ****	
**** FOR	84 TO	87.	SEF	36 TO	39	ABOVE ***	
176	88 TO	91		172 TO	175	2	4
177	89 TO	92		92 TO	95	2	4
178	90 TO	93		192 TO	195	2	4
**** FCR	92 TO	95,	SFE	89 TO	92	ABOVE ****	
**** FOR		104.	SFF	23 TO	26	ABOVE ***	
179		105		211 TO	214	2	4
180	118 TO	121		125 TO	128	2	4
**** FCR		128.	SEE	118 TO	121	ABOVE ***	
181		143		146 TO	149	2	4
182		143		155 TO	158	2	4
183		144		147 TO	150	2	4
184	141 TO	144		150 TO	153	2	4
185	141 TO 1	144		156 TO	159	2	4
186	142 TO	145		151 TO	154	2	4
187	142 TO 1	145		157 TO	160	2 2	4
188	143 TO 1	146		152 TO	155	2	4
189	143 TO 1	146		164 TO	167	2	4
190	144 TO	147		153 TO	156	2	4
191	145 TO	148		154 TO	157	2	4
**** FGR	146 TO	149.	SEF	140 TO	143	ABOVE ***	
**** FOR	147 TO	150.	SEE	141 TO	144	ABOVE ***	
**** FOR	150 TO	153.	SEE	141 TO	144	ABOVE ***	
**** FOR	151 TO :	154,	SEE	142 TO	145	ABOVE ***	
**** FCR		155.	SEF	143 TO	146	ABOVE ****	
**** FCR		156.	SEF	144 TO	147	ABOVE ***	
**** FGR		157.	SEE	145 TO	148		
**** FOR		158.	SEE	140 TO	143	ABOVE ****	
**** FCR		159•	SEF	141 TO	144		
**** FCR		160.	SEE	142 TO		ABOVE ****	
**** FOR		161.	SEE	24 TO		ABOVE ***	
**** FOR	159 TO	162.	SEF	23 TO	26	ABOVE ***	

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	160 TO 163			ABOVE **** ABOVE ****
**** FOR	162 TO 165			ABOVE ****
**** FOR	163 TO 166		23 10 26	
**** FOR	164 TO 167		143 TO 146	
**** FGR	172 TO 175		88 TO 91	ABOVE ****
192	173 10 176		182 TO 185	2 4
193	175 TO 178		188 TO 191	2 4
194	176 TO 179		189 TO 192	2 4
195	176 TO 179		195 TO 198	2 4
**** FCR	177 TO 180			ABOVE ****
**** FOR	178 TO 181		55 TO 58	
196	181 TO 184		222 TO 225	2 4
**** FOR	182 TO 185			ABOVE ****
**** FGR	188 TO 191			ABOVE ****
**** FOR	189 TO 192		176 TO 179 52 TO 55	ABOVE **** ABOVE ****
**** FOR **** FCR	190 TO 193 191 TO 194		55 TO 58	ABOVE ***
**** FOR	191 TO 194		90 TO 93	ABOVE ****
**** FOR	192 TO 193		176 TO 179	
**** FOR	196 TO 199		1 10 4	ABOVE ***
**** FCR	206 TO 209		24 TO 27	
157	207 TO 210	• 522	217 TO 220	2 4
**** FOR	210 TO 213	• SEE		ABOVE ***
**** FOR	211 TO 214		102 TO 105	
**** FOR	214 TO 217			ABOVE ***
**** FOR	215 TO 218	• SEE	23 TO 26	ABOVE ****
**** FOR	216 TO 219	• SEF	24 TO 27	ABOVE ***
**** FOR	217 TO 220	• SEE	207 TO 210	ABOVE ****
**** FOR	222 TO 225	• SEE	181 TO 184	
198	226 TO 229		229 TO 232	2 4
199	226 TO 229		232 TO 235	2 4
200	227 TO 230		230 TO 233	2 4
201	228 TO 231	ccc	231 TO 234	2 4
**** FCR	229 TO 232			ABOVE ****
**** FOR ****	230 TO 233 231 TO 234		227 TO 230 228 TO 231	
**** FCR	_			ABOVE ***
**** FOR	232 TO 235 238 TO 241			ABOVE ***
**** FOR	239 TO 242		25 TO 28	ABOVE ****
**** FOR	240 TO 243		26 TO 29	ABOVE ****
**** FOR	241 TO 244		21 TO 24	
**** FOR	242 TO 245		22 TO 25	
**** FOR	243 TO 246		68 70 71	

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 270 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
202 **** FGR	21 TO 25 21 TO 25	. SEF	241 TO 245 21 TO 25	2 ABOVE ***	5 *
203	24 TO 28		238 TO 242	2	5
204	25 TO 29		239 TO 243	2	5
**** FCR	25 TO 29	. SEF	25 TO 29	ABOVE ***	*
205	35 TO 39		83 TO 87	2	5
**** FOR	83 TO 87	SEF	35 TO 39	ABOVE ***	-
206	101 TO 105		210 TO 214	2	5
207	140 TO 144		146 TO 150	2	5
2C8	140 TO 144		155 TO 159	2	5
209	141 TO 145		150 TO 154	2	5 5 5
210	141 TO 145		156 TO 160	2	5
211	142 TO 146		151 TO 155	2	
212	143 TO 147		152 TO 156	2	5
**** FOR	143 TO 147	SEE	143 TO 147	ABOVE ***	*
213	144 TO 148		153 TO 157	2	5
214	145 TO 149		154 TO 158	2	5
**** FOR	146 TO 150	SEE	140 TO 144	ABOVE ***	*
**** FOR	150 TO 154	SFE	141 TO 145	ABOVE ***	*
**** FOR	151 TO 155	SEE	142 TO 146	ABOVE ***	*
**** FOR	152 TO 156	SEE	143 TO 147	ABOVE ***	
**** FCR	153 TO 157	SEE	144 TO 148	ABOVE ***	*
**** FOR	154 TO 158	SEE	145 TO 149	ABOVE ***	*
**** FOR	155 TO 159	SEE	140 TO 144	ABOVE ***	*
**** FOR	156 TO 160	SFE	141 TO 145	ABOVE ***	*
215	175 TO 179		188 TO 192	2	5
216	176 TO 180		189 TO 193	2	5
217	177 TO 181		190 TO 194	2	5
**** FOR	188 TO 192	SEE	175 TO 179	ABOVE ***	*
**** FOR	189 TO 193	, SEE	176 TO 180	ABOVE ***	*
**** FOR	190 TO 194	SFE	177 TO 181	ABOVE ***	*
218	206 TO 210		216 TO 220	2	5
**** FOR	210 TO 214	SEE	101 TO 105	ABOVE ***	
**** FOR	216 TO 220	SEE	206 TO 210	ABOVE ***	*
**** FOR	238 TO 242	SEE	24 TO 28	ABOVE ***	*
**** FCR	239 TO 243		25 TO 29	ABOVE ***	-
**** FOR	241 TO 245	SEE	21 TO 25	ABOVE ***	*

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 340 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TC	NOTES	TEST LE	NG TH
219	24 TC	29	238 TO 243	2	6
220	34 TO	39	82 TO 87	2	6
**** FCR	82 TO	87. SEE	34 TO 39	ABOVE ****	
221	140 TO 1	145	155 TO 160	2	6
222	141 TO 1	146	150 TO 155	2	6
223	142 TO 1	147	151 TO 156	2	6
224	143 TO 1	148	152 TO 157	2	6
225	144 TO 1	149	153 TO 158	2	6
226	145 TO 1	150	154 TO 159	2	6
**** FOR	150 TO 1	155. SEE	141 TO 146	ABOVE ***	
**** FOR	151 TO 1	156. SEE	142 TO 147	ABOVE ****	
**** FCR	152 TO 1	157. SEE	143 TO 148	A80VE ****	
**** FOR	153 TO 1	158. SEE	144 TO 149	ABOVE ****	
**** FOR	154 TO 1	159. SEE	145 TO 15C	ABOVE ****	
**** FOR	155 TO 1	160. SEE	140 TO 145	ABOVE ****	
227	175 TO 1	180	188 TO 193	2	6
228	176 TO 1	181	189 TO 194	2	6
**** FOR	188 TO 1	193. SFE	175 TO 180	ABOVE ****	
**** FCR	189 TO	194. SEE	176 TO 181	ABOVE ****	
**** FOR		243. SEE	24 TO 29	ABOVE ****	

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 403 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TC NOTES	TEST	LENGTH
229	141 TO 14	.7	150 TO 156	2	7
230	142 TO 14	8	151 TO 157	2	7
<i>7</i> 31	143 TO 14	.9	152 TO 158	2	7
232	144 TO 19	0	153 TO 159	2	7
233	175 TO 18	1	188 TO 194	2	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 419 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TC	NOTES	TEST	LENGTH
234	141 TO 148	3	150 TO 157	2	8
<i>2</i> 35	142 TO 149)	151 TO 158	2	8
236	143 TO 150	;	152 TO 159	2	8

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH --EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 434 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
237 238	141 TO 149 142 TO 150		50 TO 158 51 TO 159	2 2	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH --EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 450 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENG TH	
239	141 TO 150)	150 TO 159	2	10	

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 465 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES		TEST	LENGTH
240	29 TO	39	77 T O	87	2	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 480 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED 1	TO NOTES	5	TEST	LENGTH	
241	28 TO 3	0	76 TO	0.7	•		

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH --FXACT CONTOUR (ORIGINAL) WAS BEGUN AT 495 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

ENC OF TYPE I LISTING. TOTAL OF 241 PATTERNS LOCATED.

*** TYPE II LISTING ***

€ DGAR VARESE DENSITY 21.5 FOR SOLO FLUTE € XACT CCNTQUR (ORIGINAL)

	LOCATI OF FIF OCCURRE	RST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL FATTERN	28 TC	39	2	12	
SUBPATTERN	28 TO	31	9	4	

■ ** TEST 2 CCMPLETEC AT 549 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS **********

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 3
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NO				RCUG											
	55	54	56	51	56	51	57	55	54	56	57	51	57	56	57
N(RCUG											
	56	54	51	57	51	57	59	60	57	60	57	60	62	63	62
		9	1 10	RCUG	ы	4 5									
N.		_	_			62	42	42	4.4	70	4.	5 0	41.	70	5 2
	63	02	CJ	CZ	63	62	Co	02	04	10	04	90	04	* 0	93
Nſ	CTES	4	6 TH	ROUG	н	60									
						78	66	65	67	65	67	65	66	68	55
N (RCUG											
	56	81	61	60	61	61	59	61	58	61	75	74	75	74	75
		_													
N (_		ROUG			٠.		٠.		_,	٠.			
	14	15	14	15	14	75	14	15	14	15	14	16	91	60	61
	TEC	٥	1 TH	RCUG	н 1	05									
						74	75	74	74	74	54	51	54	51	51
		•			-	• •		• •	• •	• •	•				•
N	STES	1C	6 TH	RCUG	н ј	120									
	51	54	64	51	64	51	52	58	54	58	52	65	81	80	68
V (RCUG	-										
	67	81	8 C	68	81	80	68	67	67	57	68	69	56	57	58
N C	756	12	4 TU	ROUG	u 1	50									
""	59					83	73	80	83	80	73	83	73	80	93
		77		. •		U J	.,	-	•	-		0.5	• •	-	0,5
NC	TES	15	1 TH	ROUG	н 1	165									
	73	8C	83	80	73	83	73	80	83	80	83	80	83	80	83
				RCUG											
	80	73	74	65	74	65	65	64	65	63	65	64	63	65	63
	TEC			RCUG	u 1	0.5									
			_			61	54	55	57	56	55	57	55	56	57
	• •	U T	6)	Co	0)	01	70	ر د	, ,	70	,	,	,,	70	, ,

59	66	72	75	90	85	88	85	88	88
5 8 5	88	85	88	88	58	58	58	59	57
) 5 7	74	68	67	74	54	52	51	54	51
5 7 1	60	54	6 C	50	54	64	54	50	64
			85 -						

PATTERN HAVE BEEN DELETED CH FOLLOW --

E REITERALIONS LONGER THAN ENGTH

CK CHANGE-CF-DIRECTION

*** TYPE I LISTING ***

ECGARD VARESE

DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS CF 3 NOTES IN LENGTH -TONAL INVERSION
WAS BEGUN AT 29 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	1 TO	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 TO 6 6 TO 8 10 TO 12 12 TO 14 14 TO 16 18 TO 20 22 TO 24 24 TO 26 28 TO 30 30 TO 32 32 TO 34 34 TO 36 36 TO 38 39 TO 41 43 TO 45 47 TO 49 50 TO 52 53 TO 55 55 TO 57 58 TO 60 61 TO 63 67 TO 72 72 TO 74 74 TO 76 76 TO 72 72 TO 74 74 TO 76 76 TO 72 72 TO 74 74 TO 76 76 TO 78 78 TO 80 80 TO 82 82 TO 84 84 TO 86 86 TO 88 89 TO 91 92 TO 94 96 TO 98 102 TO 104 107 TO 109	333333333333333333333333333333333333333	333333333333333333333333333333333333333
37 38 39 40 41 42	1 TO : 1	3 3 3 3 3	109 TO 111 112 TO 114 114 TO 116 117 TO 119 121 TO 123 124 TO 126	3 3 3 3 3	3 3 3 3 3 3

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
43 44 45 46 47 48 49 50 51 52 53 54	1 TO 3	KELATED TO	131 TO 133 135 TO 137 140 TO 142 143 TO 145 146 TO 148 149 TO 151 152 TO 154 155 TO 157 158 TO 160 160 TO 162 162 TO 164 164 TO 166 167 TO 169	3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3
56 57 58 59 60 61 62 63	1 TO 3		169 TO 171 173 TO 175 175 TO 177 178 TO 180 182 TO 184 184 TO 186 188 TO 190 191 TO 193	3 3 3 3 3 3	3 3 3 3 3 3
64 65 66 67 68 69 70	1 TO 3		194 TO 196 197 TO 199 204 TO 206 206 TO 208 211 TO 213 214 TO 216 216 TO 218 223 TO 225	3 3 3 3 3 3	3 3 3 3 3 3 3 3
72 73 74 75 76 77 78 79 80	1 TO 3		225 TO 227 228 TO 230 231 TO 233 234 TO 236 238 TO 240 242 TO 244 245 TO 247 248 TO 250 251 TO 253	3 3 3 3 3 3 3	3 3 3 3 3 3
81 82 83 84 85 86 87 88	1 TO 3 2 TO 4		254 TO 256 5 TO 7 8 TO 10 11 TO 13 13 TO 15 17 TO 19 19 TO 21 23 TO 25	3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3
89 90 91 52 53	2 TO 4 2 TO 4 2 TO 4 2 TO 4 2 TO 4		25 TO 27 29 TO 31 31 TO 33 33 TO 35 35 TO 37	3 3 3 3 3	3 3 3 3

94	H
96 2 TO 4 44 TO 46 3 3 57 2 TO 4 48 TO 50 3 3 98 2 TO 4 52 TO 54 3 3 99 2 TO 4 54 TO 56 3 3 100 2 TC 4 56 TO 58 3 3 101 2 TO 4 59 TO 61 3 3 102 2 TO 4 63 TO 65 3 3 103 2 TO 4 66 TO 68 3 3 104 2 TO 4 68 TO 70 3 3 105 2 TO 4 71 TO 73 3 3 106 2 TO 4 73 TO 75 3 3 107 2 TO 4 75 TO 77 3 3 107 2 TO 4 77 TO 79 3 3 107 2 TO 4 77 TO 79	
\$7 2 TO 4 48 TO 50 3 3 98 2 TO 4 52 TO 54 3 3 99 2 TO 4 54 TO 56 3 3 100 2 TC 4 56 TO 58 3 3 101 2 TO 4 59 TO 61 3 3 102 2 TO 4 63 TO 65 3 3 103 2 TO 4 66 TO 68 3 3 104 2 TO 4 68 TO 7O 3 3 105 2 TO 4 71 TO 73 3 3 106 2 TO 4 75 TO 77 3 3 107 2 TO 4 77 TO 79 3 3 109 2 TO 4 79 TO 81 3 3 110 2 TO 4 79 TO 81 3 3	
100 2 TC 4 56 TO 58 3 3 101 2 TO 4 59 TO 61 3 3 102 2 TO 4 63 TO 65 3 3 103 2 TO 4 66 TO 68 3 3 104 2 TO 4 68 TO 70 3 3 105 2 TO 4 71 TO 73 3 3 106 2 TO 4 75 TO 77 3 3 107 2 TO 4 77 TO 79 3 3 108 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
100 2 TC 4 56 TO 58 3 3 101 2 TO 4 59 TO 61 3 3 102 2 TO 4 63 TO 65 3 3 103 2 TO 4 66 TO 68 3 3 104 2 TO 4 68 TO 70 3 3 105 2 TO 4 71 TO 73 3 3 106 2 TO 4 75 TO 77 3 3 107 2 TO 4 77 TO 79 3 3 108 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
100 2 TC 4 56 TO 58 3 3 101 2 TO 4 59 TO 61 3 3 102 2 TO 4 63 TO 65 3 3 103 2 TO 4 66 TO 68 3 3 104 2 TO 4 68 TO 70 3 3 105 2 TO 4 71 TO 73 3 3 106 2 TO 4 75 TO 77 3 3 107 2 TO 4 77 TO 79 3 3 108 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
104 2 TO 4 68 TO 70 3 3 1C5 2 TO 4 71 TO 73 3 3 1G6 2 TO 4 73 TO 75 3 3 1C7 2 TO 4 75 TO 77 3 3 1C8 2 TO 4 77 TO 79 3 3 1C9 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
104 2 TO 4 68 TO 70 3 3 1C5 2 TO 4 71 TO 73 3 3 1G6 2 TO 4 73 TO 75 3 3 1C7 2 TO 4 75 TO 77 3 3 1C8 2 TO 4 77 TO 79 3 3 1C9 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
104 2 TO 4 68 TO 70 3 3 1C5 2 TO 4 71 TO 73 3 3 1G6 2 TO 4 73 TO 75 3 3 1C7 2 TO 4 75 TO 77 3 3 1C8 2 TO 4 77 TO 79 3 3 1C9 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
104 2 TO 4 68 TO 70 3 3 1C5 2 TO 4 71 TO 73 3 3 1G6 2 TO 4 73 TO 75 3 3 1C7 2 TO 4 75 TO 77 3 3 1C8 2 TO 4 77 TO 79 3 3 1C9 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
1C5 2 TO 4 71 TO 73 3 3 106 2 TO 4 73 TO 75 3 3 107 2 TO 4 75 TO 77 3 3 1C8 2 TO 4 77 TO 79 3 3 1C9 2 TO 4 79 TO 81 3 3 110 2 TO 4 81 TO 83 3 3	
112	
112 2 70 4 90 70 00 3	
113 2 TO 4 88 TO 90 3 3	
114 2 TO 4 90 TO 92 3 3	
115 2 TO 4 93 TO 95 3 3	
116 2 TO 4 101 TO 103 3 3	
117 2 TO 4 108 TO 110 3 3	
117 2 TO 4 108 TO 110 3 3 118 2 TO 4 110 TO 112 3 3 119 2 TO 4 113 TO 115 3 3 120 2 TO 4 115 TO 117 3 3	
119 2 TO 4 113 TO 115 3 3	
120 2 TO 4 115 TO 117 3 3	
121 2 TO 4 120 TO 122 3 3	
122 2 TO 4	
124 2 TO 4 132 TO 134 3 3	
125 2 TO 4 136 TO 138 3 3	
126 2 TO 4 141 TO 143 3 3	
127 2 TO 4 145 TO 147 3 3	
128 2 TO 4 147 TO 149 3 3	
129 2 TO 4 150 TO 152 3 3	
130 2 TO 4 154 TO 156 3 3 131 2 TO 4 156 TO 158 3 3	
131 2 TO 4 156 TO 158 3 3 132 2 TO 4 159 TO 161 3 3	
132 2 TO 4 159 TO 161 3 3 13 133 2 TO 4 161 TO 163 3 3	
134 2 TO 4 163 TO 165 3 3	
135 2 TO 4 166 TO 168 3 3	
136 2 TO 4 168 TO 17C 3 3	
137 2 TO 4 172 TO 174 3 3	
138 2 TO 4 174 TO 176 3 3	
139 2 TO 4 177 TO 179 3 3	
140 2 TO 4 179 TO 181 3 3	
141 2 TO 4 183 TO 185 3 3	
142 2 TO 4 187 TO 189 3 3	
127 2 TO 4 145 TO 147 3 3 128 2 TO 4 147 TO 149 3 3 129 2 TO 4 150 TO 152 3 3 130 2 TO 4 154 TO 156 3 3 131 2 TO 4 156 TO 158 3 3 132 2 TO 4 159 TO 161 3 3 133 2 TO 4 161 TO 163 3 3 134 2 TO 4 163 TO 165 3 3 135 2 TO 4 163 TO 165 3 3 136 2 TO 4 168 TO 17C 3 3 137 2 TO 4 172 TO 174 3 3 139 2 TO 4 177 TO 179 3 3 140 2 TO 4 179 TO 181 3 3 141 2 TO 4 183 TO <td></td>	
144 2 TO 4 192 TO 194 3 3	

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
145 146	2 TO 4		196 TO 198 198 TO 200	3	3
147			205 TO 207	3	3 3
148			207 TO 209	3	
149	2 10		210 TO 212	3	3 3 3 3 3
150	2 10	•	215 TO 217	3	3
151	2 10		217 TO 219	3	3
152		•	224 TO 226	3	3
153	2 10		227 TO 229	3	
154	2 10		230 TO 232	3	3 3 3 3
155		•	233 TO 235	3	3
156	2 10		237 TO 239	3	3
157 158			239 TO 241 243 TO 245	3 3	<i>)</i>
159	2 10		247 TO 249	3	3
160	2 10		249 TO 251	3	3
161	2 10		253 TO 255	3	3 3
162	2 TO 4		255 TO 257	3	3
**** FGR		SEE	1 TO 3	ABOVE ***	
**** FOR	-	• SEE	2 TO 4	ABOVE ***	*
**** FOR		· SEE	1 TO 3	ABOVE ***	*
**** FCR	6 10 8	See SEE	2 TO 4	ABOVE ***	*
**** FCR	8 TO 10	• SEE	1 TO 3	ABOVE ***	•
**** FGR	10 TO 13		2 TO 4	A80VE ***	•
**** FOR	11 TO 13		1 TO 3	ABOVE ***	•
**** FCR	12 TO 14		2 TO 4	ABOVE ***	
**** FOR	13 TO 19		1 70 3	ABOVE ***	-
**** FCR	14 TO 16		2 TO 4	ABOVE ***	_
**** FOR	17 TO 19		1 10 3	ABOVE ***	_
**** FCR	18 TO 20		2 10 4	ABOVE ***	_
**** FOR **** FOR	19 TO 21		1 TO 3 2 TO 4	ABOVE ***	-
**** FOR	23 TO 25		1 70 3	ABOVE ***	
**** FOR	24 TO 26		2 TO 4	ABOVE ***	
**** FOR	25 TO 21		1 10 3	ABOVE ***	
**** FCR	28 TO 30		2 TO 4	ABOVE ***	*
**** FOR	29 TO 3		1 TO 3	ABOVE ***	¢
**** FCR	30 TO 32	SEE	2 TO 4	ABOVE ***	*
**** FCR	31 TO 33	• SEE	1 TO 3	ABOVE ***	•
**** FCR	32 TO 34	• SEE	2 TO 4	ABOVE ***	•
**** FOR	33 TO 39		1 70 3	ABOVE ***	
**** FCR	34 TO 36		2 TO 4	ABOVE ***	
**** FCR	35 TO 37		1 10 3	ABOVE ***	
**** FCR	36 TO 31		2 10 4	ABOVE ***	
**** FCR	37 TO 39		1 70 3	ABOVE ***	
**** FCR	39 TO 41		2 TO 4 1 TO 3	ABOVE ***	
**** FOR	41 TO 43		1 TO 3 2 TO 4	ABOVE ***	
**** FCB	44 TO 46		1 TO 3	ABOVE ***	
**** FOR	47 TO 49		2 10 4	ABOVE ***	
**** FOR	48 TO 50		1 70 3	ABOVE ***	
				• -	

PATTERN	NCTE	S R	ELATED TO	P	NOTE	S	TEST	LENGTH
**** FOR	50 TO	52•	SEE	2	TO	4	ABOVE ***	**
**** FOR	52 TO	54,	SEE	1	TO	3	ABOVE **	**
**** FOR	53 TO	55,	SEE	2	TO	4	ABOVE ***	**
**** FOR	54 TO	56.	SEE	1	TO	3	ABOVE ***	**
**** FCR	55 TO	57.	SEE	2	TO	4	ABOVE ***	**
**** FCR	56 TO	58.	SEE	1	TO	3	ABOVE ***	**
**** FOR	58 TO	60.	SEE	2	TO	4	ABOVE ***	**
**** FOR	59 TO	61.	SEE	1	TO	3	ABOVE ***	**
**** FOR	61 TO	63,	SEE	2	TO	4	ABOVE **	
**** FOR	63 TO	65•	SEE	1	TO	3	ABOVE ***	
163	64 TO	66		97	TO	99	3	3
164	64 TO	66		103	TO	105	3	3
165	64 TO	66		127	TO	129	3	3
166	64 TO	66		170	TO	172	3	3
167	64 TO	66		212	TO	214	3	3
168	64 TO	66		220	TO	222	3	3 3
169	65 TO	67		105	TO	107	3	3
170	65 TO	67		181	TO	183	3	3
171	65 10	67		213	TO	215	3	3
172	65 TO	67	655		TO	224	3	3
**** FOR	66 TO	68.	SEE	1	TO	3	ABOVE ***	
**** FOR	67 10	69 •	SEE	2	TO	4	ABOVE ***	-
**** FCR	68 TO	70•	SEE	2	TO TO	4	ABOVE ***	
**** FOR	70 TO	72.	SEE	1	TO	3	ABOVE **	
**** FOR **** FOR	71 TO 72 TO	73. 74.	SEF SEE	2	TO	<i>3</i>	ABOVE ***	
**** FOR **** FOR	72 TO	75.	SEE	1	10	3	ABOVE **	
**** FOR	74 TO	76.	SEE	2	TO	4	ABOVE ***	
**** FCR	75 TO	77,	SEE	1	TO	3	ABOVE ***	
**** FOR	76 TO	78.	SEE	2	TO	4	ABOVE **	
**** FOR	77 TO	79.	SEE	ī	TO	3	ABOVE **	-
**** FOR	78 TO	80.	SEE	2	TO	4		
**** FCR	79 TO	81.	SEE	ī	TO	3		* *
**** FCR	80 TO	82.	SEE	2	TO	4	ABOVE ***	
**** FOR	81 TO	83.	SEE	1			ABOVE ***	
**** FOR	82 TO	84.	SEE		TO	4	ABOVE ***	**
**** FOR	83 TO	85.	SEE	1	TO	3	ABOVE ***	
**** FOR	84 TO	86.	SEE	2	TO	4	ABOVE ***	k #
**** FOR	85 TO	87.	SEE	1	TO	3	ABOVE ***	k#
**** FCR	86 TO	88.	SEE	2	TO	4	ABOVE ***	**
**** FOR	88 TO	90.	SEE	1	TO	3	ABOVE ***	**
**** FOR	89 TO	91.	SEE	2	TO	4	ABOVE ***	**
**** FCR	90 TO	92.	SEE	1	TO		ABOVE ***	
**** FOR	92 TO	94.	SEE		TO	4	ABOVE ***	
**** FCR	93 TO	95.	SEE	1	TO	3	ABOVE ***	
**** FCR	96 TO	98.	SEE	2	TO	4	ABOVE ***	
173	57 TO	99		180	TO	182	3	3
174	57 TO	99			TO	210	3	3
175	97 TO	99	_	218		220	3	3
**** FCR	59 T 0	101.	SEE		TO		ABOVE **	
**** FCR	101 TO	103.	SEE	1	TO	3	ABOVE ***	**

PATTERN	NCTES	RELATED TO	NOTES	TEST LEN	IGT
**** FCR	102 TO 10	4. SEE	2 TO 4	ABOVE ***	
**** FOR	103 TO 10		97 TO 99	ABOVE ***	
176	105 TO 10	7	128 TO 130	3	3
177	105 TO 10	7	171 TO 173	3	3 3
178	1C5 TO 10	7	209 TO 211	3	3
179	105 TO 10	7	219 TO 221	3	3
**** FOR	107 TO 10	9. SEE	2 10 4	ABOVE ****	
**** FOR	108 TO 11		1 TO 3	ABOVE ****	
**** FOR	109 TO 11		2 TO 4	ABOVE ****	
**** FGR	110 TO 11		1 10 3	ABOVE ****	
**** FCR	112 TO 11		2 10 4	ABOVE ****	
**** FOR	113 TO 11		1 TO 3	ABOVE ***	
**** FOR	114 TO 11		2 10 4	ABOVE ****	
**** FOR	115 TO 11		1 TO 3	ABOVE ****	
**** FOR	117 TO 11		2 TO 4	ABOVE ****	
**** FOR	120 TO 12		1 10 3	ABOVE ****	
**** FCR	121 TO 12		2 TO 4 1 TO 3	ABOVE ****	
**** FOR **** FOR	123 TO 12		1 TO 3 2 TO 4	ABOVE ***	
**** FOR **** FOR	124 TO 12 127 TO 12		97 10 99	ABOVE ***	
**** FOR	128 TO 13		65 TO 67		
**** FCR	129 TO 13		1 70 3	ABOVE ****	
**** FCR	131 TO 13		2 10 4	ABOVE ***	
**** FOR	132 TO 13		1 10 3	ABOVE ****	
**** FOR	135 TO 13		2 10 4	ABOVE ****	
**** FCR	136 TO 13		1 TO 3	ABOVE ****	
**** FOR	140 TO 14		2 TO 4	ABOVE ****	
**** FOR	141 TO 14		1 TO 3	ABOVE ***	
**** FOR	143 TO 14		2 TO 4	ABOVE ***	
**** FCR	145 TO 14		1 10 3	ABOVE ***	
**** FOR	146 TO 14	8. SEE	2 TO 4	ABOVE ***	
**** FOR	147 TO 14	9. SEE	1 TO 3	ABOVE ***	
**** FOR	149 TO 15	1. SEE	2 TO 4	ABOVE ****	
**** FCR	150 TO 15		1 10 3	ABOVE ***	
**** FOR	152 TO 15	4. SEE	2 TO 4	ABOVE ***	
**** FOR	154 TO 15		1 TO 3	ABOVE ***	
**** FCR	155 TO 15		2 TO 4	ABOVE ***	
**** FOR	156 TO 15		1 TO 3	ABOVE ***	
**** FOR	158 TO 16		2 TO 4	ABOVE ***	
**** FOR	159 TO 16		1 10 3	ABOVE ****	
**** FCR	160 TO 16		2 10 4	A BOVE ****	
**** FOR	161 TO 16		1 TO 3	ABOVE ****	
**** FOR	162 TO 16		2 10 4	ABOVE ****	
**** FOR	163 TO 16		1 TO 3	ABOVE ****	
**** FGR	164 TO 16		2 TO 4	ABOVE ****	
**** FCR	166 TO 16		1 TO 3 2 TO 4	ABOVE ***	
**** FOR	167 TO 16		2 TO 4 1 TO 3	ABOVE ****	
**** FOR **** FOR	168 TO 17 169 TO 17		2 TO 4	ABOVE ***	
**** FCR	170 TO 17		97 10 99	ABOVE ****	
**** FCR	171 TO 17			ABOVE ****	
7 7 7 7 CF	212 10 21				

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	172 TO 174		1 10 3	ABOVE ***
**** FOR	173 TO 175		2 TO 4	ABOVE ****
**** FCR	174 TO 176		1 TO 3	ABOVE ****
**** FOR	175 TO 177		2 10 4	ABOVE ****
**** FOR	177 TO 179		1 TO 3	ABOVE ****
**** FCR	178 TO 180		2 10 4	ABOVE ****
**** FCR	179 TC 181		1 10 3	ABOVE ****
**** FOR	180 TO 182		64 TO 66	
**** FOR	181 TO -183		105 TO 107 2 TO 4	ABOVE **** ABOVE ****
**** FCR	182 TO 184 183 TO 185		2 TO 4	ABOVE ***
**** FCR			2 70 4	ABOVE ***
**** FOR			1 10 3	ABOVE ****
**** FOR			2 TO 4	ABOVE ****
**** FOR	-		1 70 3	AROVE ****
**** FCR			2 70 4	ABOVE ****
**** FOR			1 70 3	ABOVE ****
**** FOR **** FCR			2 70 4	ABOVE ****
**** FOR	194 TO 196 196 TO 198		1 10 3	ABOVE ****
**** FOR	196 TO 196		2 10 4	ABOVE ****
**** FCR	198 TO 200		1 10 3	ABOVE ***
**** FCR	204 TO 206		2 10 4	ABOVE ****
**** FCR	204 10 200 205 TO 207		1 70 3	ABOVE ****
**** FCR	206 TO 208		2 70 4	ABOVE ***
**** FOR	207 TO 209		1 10 3	ABOVE ****
**** FOR	208 TO 210		64 TO 66	ABOVE ****
**** FOR	209 TO 211		65 TO 67	ABOVE ****
**** FOR	210 TO 212		1 70 3	ABOVE ****
**** FCR	210 TO 212		2 TO 4	ABOVE ****
**** FOR	212 TO 214		97 TO 99	ABOVE ****
**** FOR	213 TO 215		105 TO 107	AROVE ****
**** FOR	214 TO 216		2 TO 4	ABOVE ****
**** FOR	215 TO 217		1 TO 3	ABOVE ****
**** FCR	216 TO 218		2 TO 4	ABOVE ****
**** FCR	217 TO 219		1 TO 3	ABOVE ****
**** FOR	218 TO 220		64 TO 66	ABOVE ****
**** FOR	219 TO 221		65 TO 67	
**** FCR	220 TO 222		97 TO 99	ABOVE ***
**** FCR	222 TO 224		105 TO 107	
**** FCR	223 TO 225		2 TO 4	
**** FOR	224 TO 226		1 TO 3	ABOVE ****
**** FCR	225 TO 227		2 TO 4	ABOVE ***
**** FOR	227 TO 229		1 TO 3	ABOVE ****
**** FOR	228 TO 230		2 TO 4	ABOVE ****
**** FCR	230 TO 232		1 TO 3	ABOVE ***
**** FOR	231 TO 233		2 TO 4	ABOVE ****
**** FOR	233 TO 235		1 TO 3	ARDVE ****
**** FOR	234 TO 236		2 TO 4	AROVE ****
**** FOR	237 TO 239	• SEE	1 TO 3	ABOVE ****
**** FCR	238 TO 240	• SEE	2 TO 4	ABOVE ****
**** FCR	239 TO 241	• SEE	1 TO 3	ABOVE ****

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	242 TO 24	4. SEE	2 10 4	ABOVE ****
**** FOR	243 TO 24	•	1 10 3	
**** FOR	245 TO 24		2 TO 4	
**** FCR	247 TO 24	9. SEE	1 TO 3	ABOVE ***
**** FOR	248 TO 25	O. SEE	2 TO 4	ABOVE ****
**** FOR	249 TO 25	1. SEE	1 TO 3	ABOVE ****
**** FOR	251 TO 25	3. SEE	2 TO 4	ABOVE ****
**** FOR	253 TO 25	5. SEE	1 TO 3	ABOVE ****
**** FOR	254 TO 25	6. SEE	2 TO 4	ABOVE ****
**** FCR	255 TO 25	7. SEE	1 TO 3	ABOVE ****

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS CF 4 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 149 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED	TO	1	NOTE	S	TEST	LENGTH
18C 181	1 TO 1 TO	4			10	TO TO	7 13	3	4
182	1 TO	4			12	TO	15	3	4 4
183	1 TO 1 TO	4			18 22	TO TO	21 25	3 3	4
184	1 TO 1 TO	4			24	TO	27	3	4
185 186	1 10	4			28	TO	31	3	4
187	1 70	4			30	TO	33	3	4
188	1 TO	4			32	TO	35	3	4
189	1 TO	4			34	TO	37	3	4
190	1 TO	4			36	TO	39	3	4
191	1 10	4			43	TO	46	3	4
192	1 70	4			47	TO	50	3	4
193	1 TO	4			53	TO	56	3	4
194	1 TO	4			55	TO	58	3	4
195	1 TO	4			58	TO	61	3	4
196	1 TO	4			67	TO	70	3	4
197	1 70	4			70	TO	73	3	4
198	1 TO	4			72	TO	75	3	4
199	1 TO	4			74	TO	77	3	4
200	1 TO	4			76	TO	79	3	4
201	1 TO	4			78	TO	81	3	4
202	1 TO	4			80	TO	83	3	4
203	1 10	4			82	TO	85	3	4
204	1 TO	4			84	TO	87	3	4
205	1 TO	4			89	TO	92	3	4
206	1 10	4			92	TO	95	3	4
207	1 70	4			107 109	TO TO	110 112	3 3	4
208	1 TO	4			112		115	3	4
209 210	1 TO 1 TO	4			114		117	3	4
211	1 TO	4			131	TO	134	3	4
212	1 10	4			135	TO	138	3	4
213	1 TO	4			140	TO	143	3 3 3	4
214	1 10	4			146	TO	149	3	4
215	1 10	4				TO	152	3	4
216	1 TO	4			155	TO	158	3	4
217	1 TO	4			158	TO	161	3 3	4
218	1 TO	4			160	TO	163	3	4
219	1 TO	4			162	TO	165	3	4
220	1 TO	4			167	TO	170	3	4
221	1 TO	4				TO	176	3	4
222	1 TO	4			178	TO	181	3	4
223	1 10	4			182	TO	185	3	4

1	PATTERN	NOTES		RELATED TC	(NOTE	S	TEST	LENGTH
226 1 TO 4 204 TO 207 3 4 227 1 TO 4 206 TO 209 3 4 228 1 TO 4 214 TO 217 3 4 230 1 TO 4 223 TO 2241 3 4 231 1 TO 4 223 TO 2245 3 4 233 1 TO 4 228 TO 241 3 4 233 1 TO 4 224 TO 245 3 4 233 1 TO 4 224 TO 257 3 4 234 1 TO 4 2254 TO 257 3 4 235 2 TO 5 TO 8 3 4 237 2 TO 5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
227 1 TO 4 206 TO 209 3 4 228 1 TO 4 214 TO 217 3 4 229 1 TO 4 216 TO 219 3 4 230 1 TO 4 223 TO 226 3 4 231 1 TO 4 223 TO 245 3 4 232 1 TO 4 224 TO 245 3 4 233 1 TO 4 224 TO 251 3 4 234 1 TO 4 224 TO 251 3 4 235 2 TO 5 TO 8 3 4 237 2 TO 5 11 TO 14 3 4 237 2 TO 5 13 TO 16 3 4 237 2 TO 5		-			_				
228 1 TO 4 214 TO 217 3 4 230 1 TO 4 216 TO 219 3 4 231 1 TO 4 238 TO 245 3 4 232 1 TO 4 238 TO 245 3 4 233 1 TO 4 224 TO 251 3 4 233 1 TO 4 224 TO 257 3 4 234 1 TO 4 225 TO 257 3 4 235 2 TO 5 TO 8 3 4 236 2 TO 5 TO 11 TO 14 3 4 237 2 TO 5 23 TO 26 3 4 238 2 TO 5 23 TO 26 3 4 240 2 TO									
229 1 TO 4 216 TO 219 3 4 230 1 TO 4 223 TO 226 3 4 231 1 TO 4 248 TO 241 3 4 232 1 TO 4 248 TO 251 3 4 233 1 TO 4 248 TO 251 3 4 234 1 TO 4 254 TO 257 3 4 234 1 TO 4 254 TO 257 3 4 235 2 TO 5 11 TO 14 3 4 236 2 TO 5 13 TO 16 3 4 237 2 TO 5 13 TO 16 3 4 237 2 TO 5 23 TO 26 3 4 240 2 TO 5 23 TO 26 3 4 241 2 TO 5 33									
230									
231									•
232									
233 1 TO 4 248 TO 251 3 4 234 1 TO 4 254 TO 257 3 4 235 2 TO 5 5 TO 8 3 4 236 2 TO 5 11 TO 14 3 4 237 2 TO 5 17 TO 20 3 4 238 2 TO 5 17 TO 20 3 4 239 2 TO 5 23 TO 26 3 4 240 2 TO 5 29 TO 32 3 4 240 2 TO 5 31 TO 34 3 4 241 2 TO 5 31 TO 36 3 4 242 2 TO 5 31 TO 36 3 4 243 2 TO 5 52 TO 55 3 4 244 2 TO 5 52 TO 55 3 4 245 2 TO 5 71 TO 74									
234									4
235 2 TO 5 5 TO 8 3 4 236 2 TO 5 11 TO 14 3 4 237 2 TO 5 13 TO 16 3 4 238 2 TO 5 23 TO 20 3 4 239 2 TO 5 23 TO 26 3 4 240 2 TO 5 29 TO 32 3 4 240 2 TO 5 29 TO 32 3 4 241 2 TO 5 33 TO 36 3 4 242 2 TO 5 35 TO 38 3 4 242 2 TO 5 35 TO 38 3 4 244 2 TO 5 55 TO 55 3 4 245 2 TO 5 66 TO 69 3 4 247 2 TO 5 73 TO 76 3 4 248 2 TO 5 73 TO 76 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>TO</td><td></td><td></td><td>4</td></t<>						TO			4
236 2 TO 5 11 TO 14 3 4 237 2 TO 5 13 TO 16 3 4 238 2 TO 5 17 TO 20 3 4 239 2 TO 5 23 TO 26 3 4 240 2 TO 5 29 TO 32 3 4 241 2 TO 5 31 TO 34 3 4 242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 38 3 4 243 2 TO 5 35 TO 38 3 4 244 2 TO 5 54 TO 57 3 4 245 2 TO 5 66 TO 69 3 4 247 2 TO 5 71 TO 74 3 4 247 2 TO 5 77 TO 80 3 4 249 2 TO 5 77 TO 80					5	TO	8	3	4
237 2 TO 5 13 TO 16 3 4 238 2 TO 5 17 TO 20 3 4 239 2 TO 5 23 TO 26 3 4 240 2 TO 5 29 TO 32 3 4 241 2 TO 5 31 TO 34 3 4 242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 38 3 4 244 2 TO 5 52 TO 55 3 4 244 2 TO 5 54 TO 57 3 4 245 2 TO 5 54 TO 57 3 4 245 2 TO 5 71 TO 76 3 4 247 2 TO 5 77 TO 80 3 4 249 2 TO 5 77 TO		2 TO			11	TO	14	3	4
239 2 TO 5 23 TO 26 3 4 240 2 TO 5 29 TO 32 3 4 241 2 TO 5 31 TO 34 3 4 242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 38 3 4 244 2 TO 5 52 TO 55 3 4 244 2 TO 5 54 TO 57 3 4 245 2 TO 5 54 TO 57 3 4 246 2 TO 5 54 TO 57 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 71 TO 76 3 4 249 2 TO 5 77 TO 80 3 4 250 2 TO 5 77 TO 80 3 4 251 2 TO 5 81 TO 8 <		2 TO			13	TO	16		4
240 2 TO 5 29 TO 32 3 4 241 2 TO 5 31 TO 34 3 4 242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 36 3 4 244 2 TO 5 52 TO 55 3 4 244 2 TO 5 52 TO 55 3 4 245 2 TO 5 66 TO 67 3 4 246 2 TO 5 66 TO 69 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 73 TO 76 3 4 249 2 TO 5 75 TO 78 3 4 250 2 TO 5 75 TO 78 3 4 251 2 TO 5 81 TO 82 3 4 252 2 TO 5 81 TO 86	238	2 TO	5		17	TO	20		4
241 2 TO 5 31 TO 34 3 4 242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 38 3 4 244 2 TO 5 52 TO 55 3 4 245 2 TO 5 66 TO 69 3 4 246 2 TO 5 71 TO 74 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 73 TO 76 3 4 249 2 TO 5 77 TO 80 3 4 250 2 TO 5 77 TO 80 3 4 251 2 TO 5 77 TO 80 3 4 251 2 TO 5 77 TO 80 3 4 251 2 TO 5 81 TO 84 3 4 251 2 TO 5 85 TO 88	239	2 TO			23	TO	26		4
242 2 TO 5 33 TO 36 3 4 243 2 TO 5 35 TO 38 3 4 244 2 TO 5 52 TO 55 3 4 245 2 TO 5 54 TO 57 3 4 246 2 TO 5 66 TO 69 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 73 TO 76 3 4 249 2 TO 5 77 TO 80 3 4 250 2 TO 5 77 TO 80 3 4 251 2 TO 5 81 TO 84 3 4 251 2 TO 5 81 TO 84 3 4 252 2 TO 5 81 TO 84 3 4 253 2 TO 5 85 TO 88 3 4 254 2 TO 5 101 TO 104	240	2 TO			29	TO	32		4
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244 2 TO 5 52 TO 55 3 4 245 2 TO 5 54 TO 57 3 4 246 2 TO 5 66 TO 69 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 73 TO 76 3 4 249 2 TO 5 75 TO 78 3 4 250 2 TO 5 77 TO 80 3 4 250 2 TO 5 77 TO 80 3 4 251 2 TO 5 81 TO 80 3 4 251 2 TO 5 81 TO 80 3 4 251 2 TO 5 81 TO 80 3 4 251 2 TO 5 81 TO 80 3 4 252 2 TO 5 85 TO									
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246 2 TO 5 66 TO 69 3 4 247 2 TO 5 71 TO 74 3 4 248 2 TO 5 73 TO 76 3 4 249 2 TO 5 75 TO 78 3 4 250 2 TO 5 77 TO 80 3 4 251 2 TO 5 81 TO 84 3 4 252 2 TO 5 81 TO 84 3 4 253 2 TO 5 83 TO 86 3 4 253 2 TO 5 85 TO 88 3 4 254 2 TO 5 88 TO 91 3 4 255 2 TO 5 101 TO 104 3 4 255 2 TO 5 108 TO 111 3 4 257 2 TO 5 113 TO 116 3 4 258 2 TO 5 120 TO 123 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td>									4
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258 2 TO 5 113 TO 116 3 4 259 2 TO 5 120 TO 123 3 4 260 2 TO 5 123 TO 126 3 4 261 2 TO 5 145 TO 148 3 4 262 2 TO 5 154 TO 157 3 4 263 2 TO 5 159 TO 162 3 4 264 2 TO 5 161 TO 164 3 4 265 2 TO 5 163 TO 166 3 4 266 2 TO 5 168 TO 171 3 4 267 2 TO 5 172 TO 175 3 4 268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			2						
259 2 TO 5 120 TO 123 3 4 260 2 TO 5 123 TO 126 3 4 261 2 TO 5 145 TO 148 3 4 262 2 TO 5 154 TO 157 3 4 263 2 TO 5 159 TO 162 3 4 264 2 TO 5 161 TO 164 3 4 265 2 TO 5 163 TO 166 3 4 266 2 TO 5 166 TO 169 3 4 267 2 TO 5 168 TO 171 3 4 268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td>			7					2	
261 2 TO 5 145 TO 148 3 4 262 2 TO 5 154 TO 157 3 4 263 2 TO 5 159 TO 162 3 4 264 2 TO 5 161 TO 164 3 4 265 2 TO 5 163 TO 166 3 4 266 2 TO 5 168 TO 171 3 4 267 2 TO 5 168 TO 171 3 4 268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			7					3	
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263 2 TO 5 159 TO 162 3 4 264 2 TO 5 161 TO 164 3 4 265 2 TO 5 163 TO 166 3 4 266 2 TO 5 166 TO 169 3 4 267 2 TO 5 168 TO 171 3 4 268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			フ 5					2	
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267 2 TO 5 168 TO 171 3 4 268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			5					3	
268 2 TO 5 172 TO 175 3 4 269 2 TO 5 174 TO 177 3 4 270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			5					3	
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270 2 TO 5 177 TO 180 3 4 271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			5					3	
271 2 TO 5 183 TO 186 3 4 272 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4	270	2 10	5					3	
277 2 TO 5 187 TO 190 3 4 273 2 TO 5 190 TO 193 3 4			5					3	
273 2 TO 5 190 TO 193 3 4								3	
			5						

PATTERN	NGTES	RELATED TO	NOTES	TEST LENG	ГН
275	2 TO	5	205 TO 208	3 4	
276	2 TO	5	210 TO 213	3 4	
277	2 TO	5	215 TO 218	3 4	
278	2 10	5	224 TO 227	3 4	
279	2 TO	5	227 TO 230	3 4	
280	2 TO	5	230 TO 233	3 4	
281	2 TO	5	233 TO 236	3 4	
782	2 10	5	237 TO 240	3 4	
283	2 TO 2 TO	5 5	247 TO 250 253 TO 256	3 4	
284 **** FOR	2 TO 3 TO	6. SEE	1 TO 4	ABOVE ***	
**** FOR	4 TO	7. SEE	2 10 5	ABOVE ****	
**** FOR	5 TO	8. SEE	1 10 4	ABOVE ***	
285	6 10	9	19 TO 22	3 4	
286	6 TO	9	25 TO 28	3 4	
287	6 TO	9	37 TO 40	3 4	
288	6 TO	9	41 TO 44	3 4	
289	6 TO	9	44 TO 47	3 4	
250	6 TO	9	48 TO 51	3 4	
291	6 TO	9	56 TO 59	3 4	
292	6 TO	9	59 TO 62	3 4	
293	6 TO	9	68 TO 71	3 4	
294	6 TO	9	90 TO 93	3 4	
295	6 10	9	93 TO 96	3 4	
<i>7</i> 96	6 10	9	110 TO 113	3 4	
297	6 T O	9	115 TO 118	3 4	
298	6 TO	9	129 TO 132	3 4	
299	6 TO	9	132 TO 135	3 4	
300	6 TO	9	136 TO 139	3 4	
301	6 10	9	141 TO 144	3 4	
302	6 10	9	147 TO 150	3 4	
303	6 TO	9	150 TO 153 156 TO 159	3 4	
304 305	6 TO 6 TO	9 9	156 TO 159 192 TO 195	3 4 3 4	
305 306	6 TO 6 TO	9	198 TO 201	3 4	
3C 7	6 TO	9	239 TO 242	3 4	
308	6 10	9	243 TO 246	3 4	
309	6 TO	9	249 TO 252	3 4	
310	6 TO	9	255 TO 258	3 4	
311		10	21 TO 24	3 4	
312		10	27 TO 30	3 4	
313		10	38 TO 41	3 4	
314	7 TO :	10	42 TO 45	3 4	
315	7 TO	10	46 TO 49	3 4	
316		10	49 TO 52	3 4	
317		10	57 TO 60	3 4	
318		10	60 TO 63	3 4	
319		10	69 TO 72	3 4	
320		10	91 TO 94	3 4	
321		10	95 TO 98	3 4 3 4	
322	7 TC	10	106 TO 109	3 4	

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
323	7 TO 10	11		3	4
324	7 10 10	11		3	4
325	7 TO 10	13 13		3 3	4
32 6	7 TO 10 7 TO 10	13		3	4
327 328	7 TO 10	14		3	4
329	7 10 10	14		3	4
330	7 TO 10	15		3	4
331	7 TO 10	15		3	4
332	7 TO 10	19		3	4
333	7 TO 10	20		3	4
334	7 TO 10	24		3	4
335	7 TO 10	24	4 TO 247	3 3	4
336	7 TO 10	25	0 TO 253	3	4
337	8 TO 11	1		3	4
338	8 TO 11	3		3	4
339	8 TO 11	5		3	4
340	8 TO 11	6		3 3	4
341	8 TO 11	8		3	4
342	8 TO 11	11		3	4
343	8 TO 11	12		3	4
344	8 TO 11	12		3	4
345	8 TO 11	14		3 3	4
346	8 70 11	15		3	4
347	8 TO 11	16 17		3	4
348	8 TO 11 8 TO 11	18		3	4
349 350	8 TO 11	18		3	4
351	8 TO 11	19		3	4
352	8 TO 11	22		3	4
353	8 TO 11	22	=	3	4
354	8 TO 11	23		3	4
355	8 TO 11	23			4
356	8 TO 11	24		3	4
357	8 TO 11	25		3	4
358	9 10 12	1		3 3 3 3 3 3	4
359	9 TO 12	4		3	4
360	9 TO 12	5		3	4
361	9 TO 12	6		3	4
362	9 TO 12 9 TO 12	8		3	4
363	9 TO 12	10		3	4
364	9 10 12	11		3	4
365 344	9 TO 12	12		3 3 3 3	4
366 347	9 TO 12 9 TO 12	14 15		<i>3</i>	4
367 368	9 TO 12 9 TO 12	16		3	4
369	9 TO 12	17		3	4
370	9 70 12	18		3	4
371	9 TO 12	18		3	4
372	9 TO 12	19		3	4
373	9 TO 12		6 TO 229	3	4

PATTERN	NCTES	RE	LATED TO	٨	NOTE	S	TEST	LENG TH
374	9 10	12		229	TO	232	3	4
375	9 TO	12		232	TO	235	3	4
376	9 TO	12		236	TO	239	3	4
377	9 10	12		246	TO	249	3	4
378	9 TO	12		252	TO	255	3	4
**** FOR	10 TO	13.	SEE	2	TO	5		**
**** FOR	11 TO	14.	SEE	1	TO	4		**
**** FOR	12 TO	15.	SEE	2	TO	5	A501C	**
**** FCR	13 TO	16.	SEE	1	TO TO	4	750VC	** **
**** FOR **** FOR	14 TO 16 TO	17. 19.	SEE SEE	6 7	TO	9 10		**
**** FOR	17 TO	20.	SEE	i	TO	4		**
**** FGR	18 TO	21.	SEE	2	TO	5		**
**** FCR	19 TO	22.	SEE	8	TO	11		**
**** FCR	21 TO	24.	SEE	9	TO	12		**
**** FOR	22 TO	25.	SEE	2	TO	5		**
**** FOR	23 TO	26.	SEE	1	TO	4	ABOVE **	**
**** FOR	24 TO	27.	SEE	2	TO	5	ABOVE **	**
**** FOR	25 TO	28.	SEE	8	TO	11	ABOVE **	**
**** FOR	27 TO	30 •	SEE	9	TO	12	70016	**
**** FOR	28 TO	31.	SEE	2	TO	5		**
**** FOR	29 TO	32.	SEE	1	TO	4		**
**** FOR	30 TO	33.	SEE	2	TO	5		**
**** FOR	31 TO	34.	SEE	1	TO	4		**
**** FOR	32 TO	35.	SEE	2	TO	5		**
**** FOR	33 TO	36.	SEE	1	TO	4		** **
**** FOR	34 TO	37.	SEE	2	TO TO	5 4	70012	**
**** FOR **** FOR	35 TO 36 TO	38. 39.	SEE SEE	2	TO	5		**
**** FOR	37 TO	40.	SEE	8	to	11		**
**** FCR	38 TO	41.	SEE	9	TO			**
**** FCR	39 TO	42.	SEE	6	70	9		**
**** FOR	40 TO	43.	SEE	7	TO	10		**
**** FOR	41 TO	44.	SEE	8	TO	11		**
**** FOR	42 TO	45.	SEE	9	TO	12	ABOVE **	**
**** FOR	43 TO	46.	SEE	2	TO	5	ABOVE **	**
**** FCR	44 TO	47.	SEE	8	TO	11		**
**** FGR	46 TO	49.	SEE	9	TO	12		**
**** FOR	47 TO	50.	SEE	2	TO	5	• • • • •	**
**** FOR	48 TO	51.	SEE	8	TO	11		**
**** FOR	49 TO	52.	SEE	9	TO	12		**
**** FOR	50 TO	53.	SEE	6	TO	9		** **
**** FCR	51 TO	54 .	SEF	7	TO TO	10	_	**
**** FCR **** FOR	52 TO 53 TO	55. 56.	SEE SEE	2	TO	5		**
**** FOR	54 TO	57·	SEE	1	TO	4		**
**** FOR	55 TO	58.	SEE	2	TO	5		**
**** FOR	56 TO	59.	SEE	8	TO	11		**
**** FCR	57 TO	60.	SEE	9	TO	12		**
**** FOR	58 TO	61.	SEE	2	TO	5		**
**** FOR	59 TO	62.	SEE	8	TO	11	ABOVE **	**

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FGR	60 TO	63. SEE		ABOVE ****
**** FCR	61 TO	64. SEE	6 TO 9	ABOVE ****
**** FCR	62 TO 63 TO	65. SEE	7 TO 10 96 TO 99	ABOVE **** 3 4
379 380	63 TO	66 66	102 TO 105	3 4
381		66	169 TO 172	3 4
382		66	211 TO 214	3 4
383	64 TO	67	212 TO 215	3 4
384	65 TO	68	181 TO 184	3 4
385	65 TO	68	213 TO 216	3 4
386	65 TO	68	222 TO 225	3 4
**** FOR	66 TO	69. SEE	1 TO 4	ABOVE ****
**** FOR	67 TO	70. SEE	2 TO 5	ABOVE ****
**** FCR	68 TO	71. SEE	8 TO 11 9 TO 12	ABOVE ****
**** FOR **** FOR	69 TO 70 TO	72. SEE 73. SEE	9 TO 12 2 TO 5	ABOVE ***
**** FOR	71 TO	74. SEE	1 70 4	ABOVE ****
**** FCR	72 TO	75. SEE	2 10 5	ABOVE ****
**** FCR	73 TO	76. SEE	1 TO 4	ABOVE ****
**** FCR	74 TO	77. SEE	2 TO 5	ABOVE ****
**** FOR	75 TO	78. SEE	1 TO 4	ABOVE ****
**** FOR	76 TO	79. SEE	2 TO 5	ABOVE ****
**** FOR		80, SEE	1 TO 4	ABOVE ***
**** FOR	78 TO	81. SEE	2 TO 5	ABOVE ****
**** FCR	79 TO	82. SEE	1 TO 4	ABOVE ****
**** FOR		83. SEE	2 TO 5	ABOVE ****
**** FCR	81 TO	84, SEE	1 TO 4 2 TO 5	ABOVE **** ABOVE ****
**** FOR **** FOR	82 TO 83 TO	85. SEE 86. SEE	2 TO 5	ABOVE ***
**** FCR	84 TO	87. SEE	2 10 5	ABOVE ****
**** FCR	85 TO	88. SEF	1 TO 4	ABOVE ****
**** FCR	86 TO	89. SEE		ABOVE ****
**** FOR	87 TO	90. SEE	7 TO 10	ABOVE ****
**** FCR	88 TO	91. SEE		ABOVE ****
**** FOR		92. SEE		ABOVE ***
**** FOR		93. SEE	8 TO 11	ABOVE ****
**** FOR		94. SEE	9 10 12	ABOVE ****
**** FOR **** FOR		95. SEE	2 TO 5 8 TO 11	ABOVE ****
**** FOR **** FOR		96. SEE 98. SEE	8 TO 11 9 TO 12	ABOVE ****
387	56 TO	99	179 TO 182	3 4
388		99	207 TO 210	3 4
389		99	217 TO 220	3 4
390		101	104 TO 107	3 4
391		101	221 TO 224	3 4
392		102	105 TO 108	3 4
**** FOR		103. SEE	7 70 10	
**** FCR		104. SEE	1 70 4	
**** FOR		los. SEE	96 TO 59	
**** FOR		log. SEE		ABOVE ****
**** FOR	107 TO 1	110. SEF	2 TO 5	ABOVE ****

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	108 TO 111			AROVE ****
**** FOR	109 TO 112		2 10 5	ABOVE ****
**** FOR	110 TO 113		8 TO 11 9 TO 12	ABOVE ****
**** FCR **** FOR	111 TO 114 112 TO 115		2 70 5	ABOVE ****
**** FCR	112 TO 116		1 70 4	
**** FOR	114 TO 117		2 10 5	
**** FOR	115 TO 118		8 TO 11	ABOVE ****
**** FCR	116 TO 119		9 TO 12	
**** FOR	117 TO 120		6 TO 9	ABOVE ****
**** FCR	119 TO 122		7 TO 10	ABOVE ****
**** FOR	120 TO 123		1 TO 4	ABOVE ***
**** FOR	121 TO 124		6 TO 9	ABOVE ****
**** FCR	122 TO 125		7 TO 10	ABOVE ***
**** FOR	123 TO 126	• SEE	1 TO 4	ABOVE ***
**** FOR	124 TO 127	• SEE	6 TO 9	ABOVE ***
393	127 TO 130		180 TO 183	3 4
**** FOR	128 TO 131	 SEE 	65 TO 68	ABOVE ***
**** FCR	129 TO 132	• SEE	8 TO 11	ABOVE ****
**** FCR	130 TO 133	• SEE	9 TO 12	
**** FOR	131 TO 134	• SEE	2 TO 5	ABOVE ***
**** FOR	132 TO 135		8 TO 11	
**** FOR	134 TO 137			ABOVE ****
**** FCR	135 TO 138		2 TO 5	ABOVE ****
**** FCR	136 TO 139		8 TO 11	ABOVE ****
**** FOR	139 TO 142		9 TO 12	
**** FOR	140 TO 143		2 TO 5	ABOVE ****
**** FCR	141 TO 144		8 TO 11	ABOVE ****
**** FOR	142 TO 145			ABOVE ****
**** FOR	143 TO 146		6 TO 9	ABOVE ***
**** FOR	144 TO 147		7 10 10	
**** FCR	145 TO 148		1 10 4	
**** FOR	146 TO 149		2 TO 5	ABOVE ****
**** FOR	147 TO 150		8 TO 11	ABOVE ****
**** FCR	148 TO 151		9 TO 12 2 TO 5	ABOVE ****
**** FCR **** FGR	149 TO 152		2 TO 5 8 TO 11	ABOVE ****
**** FGR **** FOR	150 TO 153		9 TO 12	
**** FOR	151 TO 154 152 TO 155		6 TO 9	
**** FOR	153 TO 156		7 70 10	
**** FOR	154 TO 157		1 TO 4	
**** FOR	155 TO 158		2 10 5	
**** FOR	156 TO 159		8 TO 11	
**** FOR	157 TC 160		9 10 12	-
**** FOR	158 TO 161		2 TO 5	
**** FOR	159 TO 162		1 TO 4	ABOVE ****
**** FOR	160 TO 163		2 10 5	
**** FCR	161 TO 164		1 TO 4	ABOVE ****
**** FOR	162 TO 165		2 TO 5	ABOVE ****
**** FOR	163 TO 166		1 TO 4	
**** FOR	164 TO 167		6 TO 9	ABOVE ****

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENGT
			7 70	
**** FCR	165 TO 168			LO ABOVE **** 4 ABOVE ****
**** FOR	166 TO 169		1 TO	• = • =
**** FOR	167 TO 170		2 10	
**** FOR	168 TO 171		1 70	
**** FOR	169 TO 172			99 ABOVE **** 30 ABOVE ****
**** FOR	170 TO 173			68 ABOVE ****
**** FOR **** FCR	171 TO 174 172 TO 175		1 10	4 ABOVE ****
			2 TO	5 ABOVE ****
**** FOR **** FOR	173 TO 176 174 TO 177		1 TO	4 ABOVE ****
**** FOR	175 TO 177		6 TO	9 ABOVE ****
**** FOR	176 TO 178			10 ABOVE ****
**** FOR	177 TO 180		1 10	4 ABOVE ****
**** FCR	178 TO 181		2 10	5 ABOVE ****
**** FOR	179 TO 182			66 ABOVE ****
394	181 TO 184			12 3 4
**** FOR	182 TO 185		2 10	5 ABOVE ****
**** FCR	183 TO 186		1 10	4 ABOVE ****
**** FOR	184 TO 187		6 TO	9 ABOVE ****
**** FCR	186 TO 189			10 ABOVE ****
**** FOR	187 TO 190		1 10	4 ABOVE ****
**** FOR	188 TO 191		6 70	9 ABOVE ****
**** FOR	189 TO 192			O ABOVE ****
**** FOR	190 TO 193		1 10	4 ABOVE ****
**** FCR	191 TO 194		2 TO	5 ABOVE ****
**** FOR	192 TO 195			11 ABOVE ****
**** FOR	193 TO 196			12 ABOVE ****
**** FOR	194 10 197		6 10	9 ABOVE ****
**** FOR	195 TO 198			LO ABOVE ****
**** FOR	196 TO 199		1 70	4 ABOVE ****
**** FCR	197 TO 200		2 TO	5 ABOVE ****
**** FOR	198 TO 201			LI ABOVE ****
**** FOR	203 TO 206			2 ABOVE ****
**** FOR	204 TO 207		2 TO	5 ABOVE ****
**** FOR	205 TO 208		1 TO	4 ABOVE ****
**** FCR	206 TO 209		2 TO	5 ABOVE ****
**** FCR	207 TO 210			66 ABOVE ****
**** FOR	208 TO 211			57 ABOVE ****
**** FOR	209 TO 212			68 ABOVE ***
**** FOR	210 TO 213		1 TO	4 ABOVE ****
**** FOR	211 TO 214		96 TO 9	99 ABOVE ****
395	212 TO 215		218 TO 22	21 3 4
**** FOR	213 TO 216	• SEE	181 TO 18	84 ABOVE ****
**** FOR	214 TO 217		2 10	5 ABOVE ****
**** FOR	215 TO 218		1 TO	4 ABOVE ****
**** FOR	216 TO 219		2 TO	5 ABOVE ****
**** FOR	217 TO 220	• SEE		66 ABOVE ***
**** FCR	218 TO 221			67 ABOVE ****
**** FOR	222 TO 225		181 TO 1	84 ABOVE ****
**** FOR	223 TO 226		2 TO	5 ABOVE ****
**** FCR	224 TO 227	• SEE	1 TO	4 AROVE ****

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PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FCR		28. SEE	6 TO 9	ABOVE ****
**** FOR		29, SEE	7 TO 10	ABOVE ****
**** FOR	227 TO 23	30∙ SEE	1 TO 4	ABOVE ****
**** FCR		31. SEE	6 TO 9	ABOVE ****
**** FOR		32. SEE	7 TO 10	ABOVE ****
**** FOR	230 TO 23	33. SEE	1 TO 4	ABOVE ****
**** FOR	231 TO 23	34• SEE	6 TO 9	ABOVE ****
**** FOR	232 TO 23	35. SEE	7 TO 10	ABOVE ****
**** FOR	233 TO 23	36. SEE	1 TO 4	ABOVE ****
**** FOR	234 TO 23	ST. SEE	6 TO 9	ABOVE ****
**** FCR	236 TO 23	39∙ SEE	7 TO 10	ABOVE ****
**** FCR	237 TO 24	O. SEE	1 TO 4	ABOVE ****
**** FOR	238 TO 24	1. SEE	2 TO 5	ABOVE ****
**** FCR	239 TO 24	2. SEE	8 TO 11	ABOVE ****
**** FCR	241 TO 24	4. SEE	9 TO 12	ABOVE ****
**** FCR	242 TO 24	5. SEE	2 TO 5	ABOVE ***
**** FOR	243 TO 24	6. SEE	8 TO 11	ABOVE ****
**** FCR	244 TO 24	7. SEE	9 TO 12	ABOVE ****
**** FCR	245 TO 24	8. SEE	6 TO 9	ABOVE ****
**** FOR	246 TO 24	9. SEE	7 TO 10	ABOVE ****
**** FOR	247 TO 25	SEE SEE	1 TO 4	ABOVE ****
**** FOR	248 TO 25	SEE SEE	2 TO 5	ABOVE ***
**** FOR	249 TO 25	SEE SEE	8 TO 11	ABOVE ****
**** FOR		SEE	9 TO 12	ABOVE ****
**** FCR		SEE	6 TO 9	ABOVE ****
**** FOR		55. SEE	7 TO 10	ABOVE ****
**** FOR		6. SEE	1 TO 4	ABOVE ****
**** FOR		57. SEE	2 TO 5	ABOVE ****
**** FOR		8. SEE	8 TO 11	ABOVE ***

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 294 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED TO	ſ	NOTE	S	TEST	LENGTH
396	1 10	5		10	TO	14	3	5
397 308	1 TO 1 TO	5		12	TO TO	16	3	5 5
398 3 5 9	1 TO 1 TO	5 5		22 28	TO	26 32	3 3	5 5
400	1 10	5		30	TO	34	3	5
401	1 10	5		32	TO	36	3	5
402	1 70	5		34	TO	38	3	5
403	1 TO	5		53	TO	57	3	5
404	1 TO	5		70	TO	74	3	5
405	1 70	5		72	TO	76	3	5
406	1 TO	5		74	TO	78	3	5
407	1 70	5		76	TO	80	3	5
408	1 70	5		78	TO	82	3	5
4C9 410	1 TO 1 TO	5 5		80 82	TO TO	8 4 86	3 3	5 5
411	1 70	5		84	TO	88	3	5
412	1 70	5		107	TO	111	3	5
413	1 10	5		112	TO	116	3	5
414	1 TO	5		158	TO	162	3	5
415	1 TO	5		160	TO	164	3	5
416	1 TO	5		162	TO	166	3	5
417	1 TO	5		167	TO	171	3 3	5
418	1 TO	5		173	TO	177		5
419	1 TO	5		182	TO	186	3	5
420	1 TO	5		204	TO	208	3	5
421	1 TO	5		214	TO	218	3	5
422 423	1 TO 2 TO	5		223	TO TO	227 15	3 3	5 5
424	2 10	6		17	TO	21	3	5
425	2 10	6		23	TO	27	3	5
426	2 TO	6		29	TO	33	3	5
427	2 10	6		31	TO	35	3	5
428	2 TO	6		33	TO	37	3	5
429	2 TO	6		35	TO	39	3 3 3	5
430	2 TO	6		52	TO	56	3	5
431	2 TO	6		54	TO	58	3	5
432	2 10	6		66	TO	70	3	5
433	2 TO 2 TO	6		71	TO	75 77	3 3	5
434 435	2 TO 2 TO	6		73 75	TO TO	77 79	3	5 5
436	2 10	6		77	TO	81	3	5
437	2 TO	6		79	T 0	83	3	5
438	2 10	6		81	TO	85	3	5
439	2 10	6		83	TO	87	3	5

PATTERN	NCTES	R	ELATED TO	٨	NOTE	S	TEST	LENGTH
440	2 TO	6		88	TO	92	3	5
441	2 10	6		108	TO	112	3	5
442	2 TO	6		113	TO	117 149	3 3	5 5
443	2 TO	6		145 154	TO TO	158	3	5
444 445	2 TO 2 TO	6 6		159	T O	163	3	5
446	2 10	6		161	TO	165	3	5
447	2 10	6		166	TO	170	3	5
448	2 10	6		172	TO	176	3	5
449	2 TO	6		177	TO	181		5
450	2 TO	6		190	TO	194	3 3	5
451	2 TO	6		196	TO	200	3	5
452	2 TO	6		205	TO	209	3	5
453	2 TO	6		215	TO	219	3	5
454	2 TO	6		237	TO	241	3	5
455	2 10	6		247	TO	251	3	5
456	2 TO	6		253	TO	257	3	5
**** FOR	3 TO	7.	SEE	1	TO	5	ABOVE ***	*
**** FOR	4 TO	8.	SEE	2	TO	6	ABOVE ***	•
457	5 TO	9		18	TO	22	3	5
458	5 TO	9		24	TO	28	3	5
459	5 TO	9		36	TO	40	3	5
460	5 TO	9		43	TO	47	3	5
461	5 TO	9		47	TO	51	3 3	5
462	5 TO 5 TO	9		55 58	TO TO	59 62	3	5 5
463	5 TO	9		67	TO	71	3	5
464 465	5 TO	9		89	TO	93	3	5
466	5 TO	9		92	TO	96	3	5
467	5 TO	9		109	TO	113	3	5
468	5 TO	ģ		114	TO	118		5
469	5 TO	ģ		131	TO	135	3 3 3	5
470	5 10	9		135	TO	139	3	5
471	5 TO	9		140	TO	144	3	5
472	5 TO	9		146	TO	150		5
473	5 10	9		149	TO	153	3 3 3 3	5
474	5 TO	9		155	TO	159	3	5
475	5 TO	9		191	TO	195		5
476	5 TO	9		197	TO	201	3	5
477	5 TO	9		238	TO	242	3	5
478	5 TO	9		242	TO	246	3	5
479	5 TO	9		248	TO	252	3	5
480	5 TO	9		254	TO	258	3	5
481	6 TO	10		37 41	TO TO	41 45	3	5 5
482	6 TO 6 TO	10 10		41	TO	52	3 3 3	5
483 484	6 TO 6 TO	10		56	TO	60	3	5
485	6 10	10		59	TO	63	3	5
486	6 TO	10		68	TO	72		5
487	6 10	10		90	TO	94	3 3	5
488	6 TO	10		110	TO	114	3	5

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PATTERN	NOTES		RELATED TO	N	OTE	S	TEST	LENGTH
489	6 TO	10		115	TO	119	3	5
490	6 TO	10		129	TO	133	3	5
491	6 TO	10		141	TO	145	3	5
492	6 TO	10			TO	151	3	5
493	6 TO	10			TO	154	3	5
494	6 TO	10		156	TO	160	3	5
495	6 TO	10		192	TO	196	3	5 5
496	6 TO	10		_	TO	247	3	
497	6 TO	10			TO	253	3	5
**** FCR	6 TO	10.	SEE		TO	10	ABOVE ***	
498	7 10	11			TO	42	3	5
499	7 10	11		49	TO	53	3	5
500	7 10	11		60	TO	64	3	5
501	7 TO	11			TO	120	3	5
502	7 TO	11			TO	146	3	5
503	7 TO	11			TO	155	3	5
504	7 TO	11			TO	197	3	5
505	7 TO	11			TO	248	3	5
506	7 10	11		250	TO	254	3	5
507	8 TO	12			TO	43	3	5
5C8	8 TO	12		50	TO	54	3	5 5 5
509	8 TO	12		61	TO TO	65	3 3) 5
510	8 TO	12				90		
511	8 TO	12			TO TO	125	3	5
512	8 TO 8 TO	12			TO	147 156	3 3	5 5
513 514		12			TO	168	3	5
	8 TO 8 TO	12 12		175	TO	179	3	
515 516	8 TO	12		188	70	192	3	5 5 5 5
517	8 TO	12			TO	198	3	5
518	8 TO	12			TO	229	3	5
519	8 TO	12		228		232	3	5
520	8 TO	12		231	TO	235	3	
521	8 TO	12			TO	249	3	5 5
522	8 10	12			TO	255	3	5
**** FOR	8 TO	12.	SEE	8	TO	12	ABOVE ***	*
523	9 TO	13			TO	20	3	5
524	9 10	13			TO	55	3	5
525	9 TO	13			TO	91	3	5
526	9 TO	13			TO	104	3	5
527	9 TO	13			TO	123	3	5
528	9 TO	13			TO	126	3	5
529	9 TO	13			TO	148	3	
530	9 10	13			TO	157	3	5 5 5
531	9 TO	13		165	TO	169	3	5
532	9 TO	13			TO	180	3	5
533	9 TO	13			TO	190	3	5
534	9 10	13			TO	193	3	5
535	9 TO	13			TO	199	3	5
536	9 10	13			TO	230	3	5
537	9 TO	13		229	TO	233	3	5

PATTERN	NCTES	RELAT	ED TO	NOTE	ES	TEST	LENGTH
538	9 TO	13		232 TO	236	3	5
539	9 TO	13		236 TO	240	3	5
540	9 TO	13		246 TO	250	3	5
541	9 10	13		252 TO	256	3	5
**** FOR	10 TO	14.	SEE	2 10	6	ABOVE **	**
**** FOR	11 TO	15.	SEE	1 TO 2 TO	5	ABOVE **	* *
**** FOR **** FOR	12 TO 13 TO	16. 17.	SEE SEE	5 TO	6 9	ABOVE **	**
5 4 2	14 TO	18	3C C	19 TO	23	3	5
543	14 10	18		25 TO	29	3	5
544	14 TO	18		44 TO	48	3	5
545	14 TO	18		93 TO	97	3	5
546	14 10	18		132 TO	136	3	5
547	14 TO	18		136 TO	140	3	5
548	14 TO	18		198 TO	202	3	5
549	14 10	18		239 TO	243	3	5
550	14 TO	18		255 TO	259	3 3	5
551	15 TO	19		20 TO	24		5
552	15 TO	19		26 TO	30	3	5
553	15 TO	19		45 TO	49	3	5
554	15 TO	19		94 TO	98	3	5
555 554	15 TO	19		133 TO	137	3 3	5 5
556 553	15 10	19		138 TO 202 TO	142	3	5 5
557 559	15 TO 15 TO	19 19		240 TO	206 244	3	5
558 **** FBR	15 TO	19.	SEE	15 TO	19	ABOVE **	
559	16 TO	20	JEC	21 TO	25	3	5
560	16 TO	20		27 TO	31	3	5
561	16 TO	20		42 TO	46	3	5
562	16 TO	20		46 TO	50	3	5
563	16 TO	20		57 TO	61	3	5
564	16 TO	20		69 TO	73	3	5
565	16 TO	20		91 TO	95	3	5
566	16 TO	20		106 TO	110	3	5
567	16 TO	20		111 TO	115	3	5
568	16 TO	20		130 TO	134	3	5
569 530	16 70	20		134 TO 139 TO	138 143	3 3	5 5
570 57)	16 TO 16 TO	20 20		148 TO	152	3	5
571 572	16 TO	20		157 TO	161	3	5
573	16 10	20		203 TO	207	3	5
574	16 70	20		241 TO	245	3	5
**** FOR	17 TO	21.	SEE	1 10	5	ABOVE **	**
575	18 TO	22		85 TO	89	3	5
576	18 TO	22		120 TO	124	3	5
577	18 TO	22		123 TO	127	3	5
578	18 TO	<i>22</i>		163 TO	167	3	5
579	18 TO	22		174 TO	178	3	5
580	18 TO	22		183 TO	187	3	5
581	18 TO	22		187 TO	191	3	5
582	18 TO	22		224 TO	228	3	5

PATTERN	NGTES	RE	LATED TC	NO	OTES	TEST	LFNGTH
583	18 TO	22			ro 231	3	5
584 585	18 TO 18 TO	22 22			ro 234 ro 237	3 3	5 5
585 586	19 10	23			ro 121	3	5
587	19 TO	23			0 128	3	5
588	19 TO	23			ro 188	3	5
589	19 TO	23			ro 238	3	5
590	20 TO	24			ro 122	3	5
591	20 TO	24		185	ro 189	3	5
592	20 TO	24		235 1	ro 239	3	5
**** FOR	20 TO	24.	SEF		10 24	ABOVE ***	**
**** FOR	21 TO	25.	SEE		70 13	ABOVE **	
**** FOR	22 TO	26.	SEE		10 6	ABOVE **	
**** FOR	24 TO	28•	SEE	_	ro 22	ABOVE ***	
**** FOR	25 TO	29.	SEE		fo 23	ABOVE ***	
**** FOR	26 TO	30.	SEE		ro 24	ABOVE ***	
**** FGR **** FOR	27 TO 35 TO	31. 39.	SEE See		ro 5	ABOVE **	
**** FOR	36 TO	40•	SEE		ro 22	ABOVE **	
**** FOR	37 TO	41.	SEE		ro 12	ABOVE ***	
**** FCR	39 TO	43.	SEE		0 10	ABOVE **	* *
**** FCR	40 TO	44.	SEE		ro 11	ABOVE ***	* *
**** FCR	41 TC	45.	SEE	8 1	TO 12	ABOVE ***	**
**** FOR	42 TO	46.	SEE	9	TO 13	ABOVE ***	k 🛊
**** FOR	43 TO	47.	SEE		ro 22	ABOVE **	**
**** FOR	44 TO	48.	SEE		ro 23	ABOVE ***	_
**** FCR	45 TO	49,	SEE		ro 24	ABOVE **	-
**** FOR	46 TO	50.	SEE		TO 13	ABOVE ***	-
**** FOR	47 TO	51.	SEF		ro 22	ABOVE ***	
**** FOR	48 TO	52.	SEE SEE		ro 12 ro 10	ABOVE ***	
**** FOR **** FOR	50 TO 51 TO	54. 55.	SEE	16			
**** FCR	52 TO	56.	SEE		ro 5		
**** FCR	54 TO	58.	SEE		ro 5	ABOVE **	
**** FCR	55 TO	59.	SEE			ABOVE **	
**** FOR	56 TO	60.	SEE	8 1	ro 12	ABOVE ***	* *
**** FOR	57 TO	61.	SEE	9 1		ABOVE ***	
**** FOR	58 TO	62.	SEE			ABOVE **	
**** FCR	59 TO	63.	SEE		ro 12	ABOVE ***	
**** FOR	61 TO	65.	SEE		ro 10	ABOVE **	
5 9 3	62 TO	66			70 99	3	5
594	63 TO	67	CE C		ro 215 ro 67	ABOVE ***	5
**** FOR	63 TO 64 TO	67 . 68	SEE	212		3	5
595 596	65 TO	69		181 1		3	5
597	65 TO	69		213		3	5
598	65 TC	69		222		3	5
**** FOR	66 TO	70.	SEE			ABOVE **	_
**** FOR	67 TO	71,	SEE			ABOVE **	
**** FCR	68 TD	72.	SEE			ABOVE ***	
**** FOR	69 TO	73.	SEE	9 1	ro 13	ABOVE ***	* *

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENGT
**** FCR	70 TO 74	• SEE	2 TO 6	ABOVE ***	
**** FOR	83 TO 87		1 TO 5	ABOVE ****	
**** FOR	84 TO 88		2 10 6	ABOVE ****	
**** FOR	85 TO 89		5 TO 9	ABOVE ****	
**** FCR	86 TO 90		6 TO 10	ABOVE ****	
**** FOR	87 TO 91		16 TO 20		
**** FOR	88 TO 92	•	1 TO 5	ABOVE ****	
**** FOR	89 TO 93		18 TO 22		
**** FGR	90 TO 94		8 TO 12	ABOVE ***	
**** FOR	91 TO 95		9 TO 13	ABOVE ***	
**** FOR	92 TO 96		18 TO 22	ABOVE ***	
4*** FOR	93 TO 97		19 TO 23	ABOVE ***	
**** FOR	94 TO 98		20 TO 24	ABOVE ***	
599	98 TO 102		104 TO 108	3	5
600	59 TO 103		105 TO 109	3	5
**** FOR	99 TO 103	• SEE	99 TO 103	ABOVE ***	
**** FOR	100 TO 104	SEE	16 TO 20	ABOVE ***	
601	101 TO 105		178 TO 182	3	5
6C2	101 TO 105		206 TO 210	3	5
6C3	101 TO 105		216 TO 220	3	5
**** FOR	106 TO 110		9 TO 13	ABOVE ***	
**** FOR	107 TO 111	• SEE	2 TO 6	ABOVE ***	
**** FOR	108 TO 112	• SEE	1 70 5	ABOVE ****	
**** FOR	109 TO 113	SEE	18 TO 22		
**** FOR	110 TO 114		8 TO 12		
**** FOR	111 TO 115			ABOVE ****	
**** FOR	112 TO 116		2 TO 6		
**** FCR	113 TO 117		1 TO 5	ABOVE ***	
**** FOR	114 TO 118		18 TO 22	ABOVE ***	
**** FOR	115 TO 119		8 TO 12	ABOVE ***	
**** FCR	117 TO 121		14 TO 18		
**** FOR	118 TO 122			ABOVE ***	
**** FOR	119 TO 123			ABOVE ***	
**** FCR	120 TO 124			ABOVE ***	
**** FOR	121 TO 125		6 TO 10		
**** FOR	122 TO 126		16 TO 20 5 TO 9	ABOVE ****	
**** FOR	123 TO 127		5 TO 9	ABOVE ***	
**** FOR	124 TO 128 127 TO 131	• SEE	180 TO 184	3	5
604 **** FOR	127 TO 131 127 TO 131	, SEE		ABOVE ***	,
**** FOR	127 TO 131			ABOVE ***	
	130 TO 134		9 10 13		
**** FOR **** FOR	130 10 134 131 TO 135		18 70 22		
				ABOVE ***	
**** FOR **** FOR	132 TO 136 133 TO 137			ABOVE ***	
**** FOR	134 TO 138			ABOVE ***	
**** FOR	135 TO 139			ABOVE ***	
**** FCR	136 TO 140		19 TO 23		
**** FOR	138 TO 142		20 TO 24		
**** FCR	138 TO 142		9 TO 13		
**** FOR	140 TO 144			ABOVE ***	
TTTT TUK	140 IO 144	→ 355	10 10 22	40015 4444	

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR 1	41 TO 145.	SEE	8 TO 12	ABOVE ****
**** FOR 1	43 TO 147	SEE	6 TO 10	ABOVE ****
	44 TO 148		16 TO 20	ABOVE ****
	45 TO 149		1 TO 5	ABOVE ****
	46 TO 150		18 TO 22	ABOVE ****
	47 TO 151		8 TO 12	ABOVE ****
	48 TO 152		9 TO 13	ABOVE ****
	49 TO 153		18 TO 22	
	50 TO 154		8 TO 12	ABOVE **** ABOVE ****
	52 TO 156		6 TO 10 16 TO 20	ABOVE ****
			1 70 5	ABOVE ***
	54 TO 158		18 TO 22	ABOVE ****
	56 TO 160		8 TO 12	ABOVE ****
	57 TO 161		9 70 13	ABOVE ****
	63 TO 167		5 TO 9	ABOVE ***
	64 TO 168		6 TO 10	ABOVE ****
	65 TO 169		16 TO 20	ABOVE ***
	66 TO 170		1 TO 5	ABOVE ****
	67 TO 171		2 TO 6	ABOVE ***
	68 TO 172		01 TO 105	ABOVE ****
605 1	69 TO 173	1	79 TO 183	3 5
**** FOR 1	70 TO 174	SEE 1	27 TO 131	ABOVE ****
**** FOR 1	71 TO 175	SEE	65 TO 69	ABOVE ****
**** FOR 1	72 TO 176	SEE	1 TO 5	ABOVE ***
	73 TO 177		2 10 6	ABOVE ****
	74 TO 178		5 TO 9	ABOVE ***
	75 TO 179		6 10 10	ABOVE ***
	76 TO 180		16 70 20	ABOVE ****
	77 70 181		1 TO 5	ABOVE ****
	78 TO 182		10 TO 214	3 5
	81 TO 185		09 TO 213	3 5 ABOVE ****
	81 TO 185		81 TO 185 2 TO 6	ABOVE ***
	83 TO 187		5 TO 9	ABOVE ***
	84 TO 188		14 TO 18	ABOVE ****
	85 TO 189		15 TO 19	
	86 TO 190		16 TO 20	
	87 TO 191		5 TO 9	ABOVE ****
	88 TO 192		6 TO 10	ABOVE ***
	89 TO 193		16 TO 20	ABOVE ***
**** FOR 1	90 TO 194	SEF	1 TO 5	ABOVE ***
**** FCR 1	91 TO 195	SEE	18 TO 22	ABOVE ****
	92 TO 196			ABOVE ****
	94 TO 198		6 TO 10	ABOVE ****
	95 TO 199		16 TO 20	ABOVE ****
	96 TO 200		1 TO 5	ABOVE ***
	97 TO 201		18 TO 22	ABOVE ****
	98 TO 202		19 TO 23	ABOVE ****
	02 TO 206		20 TO 24	ABOVE ****
**** FOR 2	C3 TO 207	SEE	9 10 13	ABOVE ****

PATTERN	NCTES	REL	ATED TO	NOT	ES	TEST	LENGTH
**** FOR	204 TO	208•	SEE	2 10	6	ABOVE *	***
**** FOR	205 TO	209•	SEE	1 10	5	ABOVE *	***
**** FCR	206 TO	210.	SEE	178 TC	182	ABOVE *	***
**** FCR	2C7 TO	211.	SEE	63 TC			***
**** FOR		212.	SEE	64 TC			***
**** FCR		213.	SEE	65 TC		ABOVE *	
**** FOR		214.	SEE	101 TO		ABOVE *	
608		215	665	217 TO		3	5
**** FOR		217.	SEE	181 TC		ABOVE *	***
**** FOR		220•	SEE	178 TO			***
**** FOR **** FOR		221. 226.	SEE SEE	181 TC			***
**** FOR		227.	SEE	2 TC			***
**** FOR		228•	SEE	5 TC			***
**** FOR		229•	SEE	6 TC			***
**** FCR		230.	SEE	16 TO			***
**** FOR		231.	SEE	5 TO			***
**** FOR		232.	SEE	6 TC			***
**** FOR		233.	SEE	16 TO			***
**** FGR		234.	SEE	5 TC	9	ABOVE *	***
**** FOR		235.	SEE	6 TO	10	ABOVE *	***
**** FOR	232 TO	236.	SEE	16 TO	20		***
**** FOR	233 TO	237.	SEE	5 TO			***
**** FOR		238•	SEE	14 TO			***
**** FOR		239•	SEE	15 TO			***
**** FOR		240.	SEE	16 TO		~~~~	***
**** FCR		241.	SEE	1 10		70016	***
**** FOR		242.	SEE	18 10		70016	***
**** FOR		243•	SEE	19 TC			*** ***
**** FOR		244.	SEE	20 TC		~~~~	***
**** FOR		245.	SEE	9 TC			
**** FOR **** FOR		246. 247.	SE E SE E	8 TC			***
**** FCR		249.	SEE	6 TO			***
**** FOR		250•	SEE	16 TC			***
**** FOR		251.	SEE	1 TC			***
**** FCR		252.	SEE	18 TC			***
**** FOR	_	253•	SEE	8 TC			***
**** FCR		255.	SEE	6 TC			***
**** FOR		256.	SEE	16 TO		ABOVE *	***
**** FOR		257.	SEE	1 10		ABOVE *	***
**** FOR		258•	SEE	18 TC	22	ABOVE *	***
**** FOR		259•	SEE	19 TC	23	ABOVE *	***

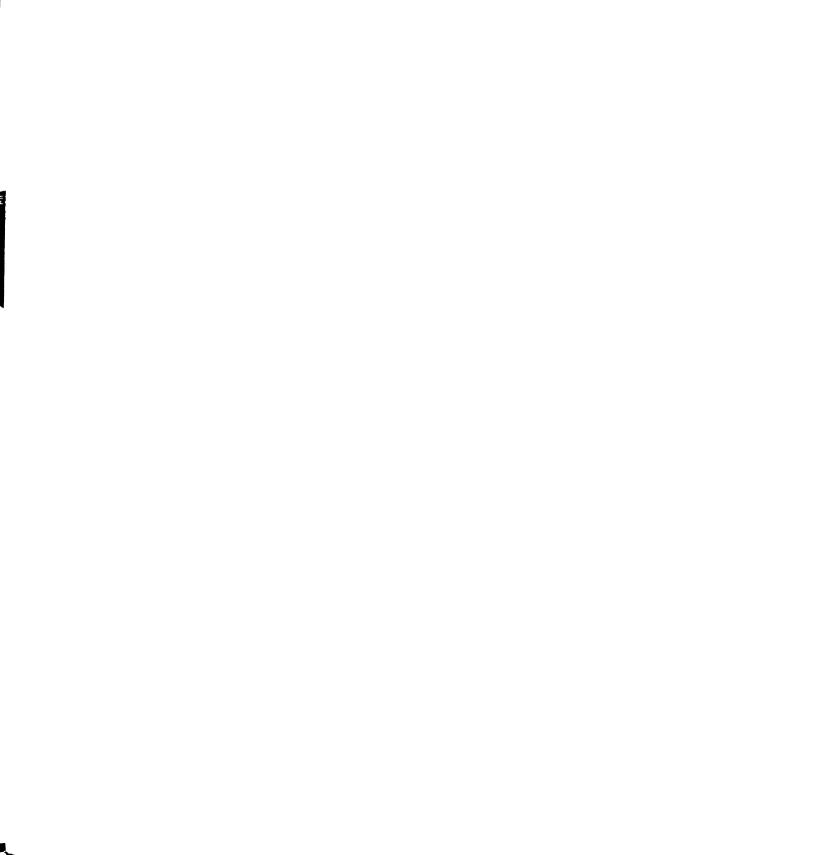
SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 477 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED	τo	١	OTE	S	TEST	LENGTH
609	1 TO	6			10	TO	15	3	6
610	1 TO	6			22	TO	27	3	6
611	1 TO	6			28	TO	33	3	6
612	1 TO	6			30	TO	35	3	6
613	1 TO	6			32	TO	37	3	6
614	1 TO	6			34	TO	39	3	6
615	1 TO	6			53	TO	58	3	6
616	1 TO	6			70	TO	75	3	6
617	1 TO	6			72	TO	77	3	6
618	1 10	6			74	TO	79	3	6
619	1 TO	6			76	TO	81	3	6
620	1 TO	6			78	TO	83	3	6
621	1 TO	6			80	TO	85 87	3	6
622 £23	1 TO 1 TO	6			82 107	TO TO	112	3 3	6 6
	1 TO	6			112	TO	117	3	6
624 625	1 10	6			158	TO	163	3	6
626	1 10	6			160	TO	165	3	6
627	1 70	6			204	TO	209	3	6
628	1 10	6			214	TO	219	3	6
629	2 10	7			11	TO	16	3	6
630	2 TO	7			29	TO	34	3	6
631	2 TO	7			31	TO	36	3	6
632	2 10	7			33	TO	38	3	6
633	2 TO	7			52	TO	57	3	6
634	2 TO	7			71	TO	76	3	6
635	2 TO	7			73	TO	78	3	6
636	2 TO	7			75	TO	80	3	6
637	2 TO	7			77	TO	82	3	6
638	2 TO	7			79	TO	84	3	6
639	2 T O	7				TO	86	3	6
640	2 TO	7			83	TO	88	3	6
641	2 TO	7			159	TO	164	3	6
642	2 TO	7			161	TO	166	3	6
643	2 TO	7			166	TO	171	3 3	6
644	2 TO	7				TO TO	177	-	6
**** FOR	3 TO 4 TO	8	• SE		1 17	TO	6 22	ABOVE ***	* 6
645 646	4 TO	9			23	TO	28	3	6
647	4 TO	9			35	TO	40	3	6
648	4 TO	9			54	TO	59	3	6
649	4 TO	ģ			66	TO	71	3	6
650	4 10	9			88	TO	93	3	6
651	4 10	9			108		113	3	6

PATTERN	NCTES		RELATED TC	N	OTE	S	TEST	LENGTH
652	4 TO	9		113	TO	118	3	6
653	4 TO	9		145	TO	150	3	6
654	4 10	9		154	TO	159	3	6
655	4 TO	9		190	TO	195	3	6
656	4 10	9		196	TO	201	3	6
657	4 TO	9		237	TO	242	3	6
658	4 TO	9		247	TO	252	3	6
659	4 TO	9		253 36	TO TO	258 41	3 3	6 6
660	5 TO 5 TO	10		47	TO	52	3	6
661	5 TO	10		55	TO	60	3	6
662 663	5 TO	10		58	TO	63	3	6
664	5 TO	10		67	TO	72	3	6
6 65	5 TO	10		89	TO	94	3	6
666	5 TO	10		109	TO	114	3	6
667	5 TO	10		114	TO	119	3	6
668	5 TO	10		140	TO	145	3	6
669	5 TO	10		146	TO	151	3	6
670	5 TO	10		149	TO	154	3	6
671	5 TO	10		155	TO	160	3	6
672	5 TO	10		191	TO	196	3	6
673	5 TO	10		242	TO	247	3	6
674	5 TO	10		248	TO	253	3	6
**** FOR	5 TO	10	SEE	5	TO	10	ABOVE ***	*
675	6 TO	11		37	TO	42	3	6
676	6 TO	11		48	TO	53	3	6
677	6 TO	11		59	TO	64	3	6
678	6 TO	11		115	TO	120	3	6
679	6 TO	11		141	TO	146	3	6
086	6 TO	11		150	TO	155	3	6
681	6 TO	11			TO	197	3	6
682	6 TO	11		243	TO	248	3	6
683	6 TO	11		249	TO	254	3	6
684	7 TO	12			TO	43	3	6
685	7 10	12		49	TO	54	3	6
686	7 10	12		60	TO	65	3	6
687	7 TO	12		142 151	TO TO	147	3 3 3 3	6
688	7 TO 7 TO	12 12		193	TO	156 198		6 6
689 690	7 TO	12		244	TO	249	3 3	6
691	7 TO	12		250	TO	255	3	6
692	8 TO	13		50	TO	55	3	6
693	8 TO	13		86	TO	91		6
694	8 TO	13		121	TO	126	ž	6
695	8 TO	13		143	to	148	3 3 3 3 3	6
696	8 TO	13			TO	157	3	6
697	8 TO	13			TO	169	3	6
698	8 TO	13		175	TO	180	3	6
659	8 TG	13		188	TO	193	3	6
700	8 TO	13		194	TO	199	3	6
701	8 TO	13		225	TO	230	3	6

PATTERN	NCTES	RELATED	TC	٨	NOTE	S	TEST	LENGTH
702		13		228	TO	233	3	6
703		13		231	TO	236	3	6
764		13		245 251	TO TO	250	3 3	6 6
705 706		13 14		16	TO	256 21	3	6
700 707		4		51	TO	56	3	6
708		4		87	TO	92	3	6
709		4		144	TO	149	3	6
710		4		153	TO	158	3	6
711		4		165	TO	170	3	6
712		4		176	TO	181	3	6
713		4		189	TO	194	3	6
714	9 TO 1	4		195	TO	200	3	6
715	9 TO 1	4		236	TO	241	3	6
716	9 TO 1	4		246	ŦO	251	3	6
717		4		252	TO	257	3	6
**** FCR		5. SE		2	TO	7	ABOVE ***	*
**** FCR			E	1	TO	6	ABOVE ***	*
**** FCR			E	4	TO	9	ABOVE ***	•
718		8		18	TO	23	3	6
719		18		24	TO	29	3	6
720		.8		43	TO TO	48 97	3 3	6
721 722		18 18		92 131	TO	136		6 6
722 723		8		135	10	140	3 3	6
724		18		197	TO	202	3	6
725		8		238	TO	243	3	6
726		8		254	TO	259	3	6
727		9		19	TO	24	3 3	6
728		19		25	TO	30	3	6
729	14 TO 1	19		44	TO	49	3	6
73 C	-	9		93	TO	98	3	6
731		19		132	TO	137	3	6
732		9			TO	244	3	6
**** FGR			E	14	TO		ABOVE ***	
733		20		20	TO	25	3	6
734		20		26 45	TO TO	31 50	3 3	6
735 736		20 20		133	TO	138	3	6 6
737		20		138	TO	143	3	6
738		20		202	TO	207	3	6
739		20		240	TO	245	3	6
74 C		21		21	TO	26	3	6
741		21			TO	32	3	6
742		?1		69	TO	74		6
743		21		106	TO	111	3 3 3	6
744		?1		111	TO	116		6
745		21		157	TO	162	3	6
746		?1		203	TO	208	3	6
**** FUR			F	16	TO	21	ABOVE ***	*
747	17 TO 2	22		84	TO	89	3	6

PATTERN	NCTES	REL	ATED TO	NOTE	S	TEST L	ENG TH
748	17 TO	22		162 TO	167	3	6
749	17 TO	22		173 TO	178	3	6
75 C	17 TO	22		182 TO	187	3	6
751	17 TO	22		223 TO	228	3	6
752	18 TO	23		123 TO	128	3	6
753	18 TO	23		183 TO	188	3	6
754	18 TO	23		233 TO	238	3	6
**** FOR	18 TO	23.	SEE	18 TO	23	ABOVE ****	,
755 354	19 10	24		117 TO 184 TO	122	3	6
756 757	19 TO 19 TO	24 24		234 TO	189 239	3 3	6 6
**** FCR	19 TO	24.	SEE	19 TO		ABOVE ***	O
758	20 TO	25	366	118 TO	123	3	6
759	20 TO	25		185 TO	190	3	6
760	20 TO	25		235 TO	240	3	6
**** FOR	21 TO	26.	SEE	9 TO		ABOVE ****	_
**** FCR	22 TO	27.	SEE	2 TO	7		
**** FOR	23 TO	28,	SEE	17 TO		ABOVE ***	
**** FOR	24 TO	29.	SEE	18 TO	23	ABOVE ***	
**** FOR	25 TO	30.	SEE	19 TO	24	ABOVE ***	
**** FOR	26 TO	31.	SEE	20 TO	25	ABOVE ****	
**** FOR	27 TO	32.	SEE	9 TO	14	ABOVE ***	
**** FCR	34 TO	39.	SEF	2 TO	7	ABOVE ***	
**** FOR	35 TO	40.	SEE	17 TO	22	ABOVE ***	
761	36 TO	41		85 T O	90	3	6
762	36 TO	41		120 TO	125	3	6
763	36 TO	41		163 TO	168	3	6
764	36 TO	41		174 TO	179	3	6
765	36 TO	41		187 TO	192	3	6
766	36 TO	41		224 TO	229	3	6
767	36 TO	41		227 TO	232	3	6
768	36 TO	41		230 TO	235	3	6
**** FOR	39 TO	44.	SEE	6 70		ABOVE ****	
**** FOR	40 TO	45,	SEE	7 TO		ABOVE ***	
**** FCR	41 TO	46.	SEE	8 TO		ABOVE ****	
769 770	42 TO 42 TO	47 47		119 TO 122 TO	124 127	3 3	6 6
770 771	42 TO	47		186 TO	191	3	6
772	42 10	47		226 TO	231	3	6
773	42 TO	47		229 TO	234	3	6
774	42 TO	47		232 TO	237	3	6
**** FOR	43 TO	48,	SEE	18 TO		ABOVE ****	•
**** FOR	44 TO	49,	SEE	19 TO		ABOVE ****	
**** FOR	45 TO	50.	SEE	20 TO		ABOVE ****	
**** FOR	46 TO	51.	SEE	42 TO	47	ABOVE ****	
**** FCR	47 TO	52.	SEE	36 TO	41	ABOVE ****	
775	50 TO	55		56 TO	61	3	6
776	50 TO	55		68 TO	73	3	6
777	50 TO	55		90 TO	95	3	6
778	50 TO	55		110 TO	115	3	6
779	50 TO	55		129 TO	134	3	6



PATTER	RN	r	NGTE	S REL	ATED TO	٨	IOTE	s	TEST	LENGTH
780		50	TO	55		147		152	3	6
781		50	TO	55		156	TO	161	3	. 6
	FOR	51	TO	56•	SEE	_	TO	21	ABOVE ***	
	FOR	52	TO	57•	SEE	1	TO	6	ABOVE ***	_
	FOR	53	TO	58•	SEE	2 17	TO TO	7 22	ABOVE ***	
	FCR FCR	54 55	TO TO	59. 60.	SFE SEE	36	TO	41	ABOVE ***	
	FOR	56	TO	61.	SEE		TO	13	ABOVE ***	*
	FOR	57	TO	62,	SEE		TO	47	ABOVE ***	*
****		58	TO	63,	SEE		TO	41	ABOVE ***	
782	FUR	63	TO	68	366	211	TO	216	3	6
783		64	TO	69			TO	217	3	6
784		65	TO	70			TO	186	3	6
785		65	TO	70		213	TO	218	3	6
786		65	TO	70		222	TO	227	3	6
	FCR	66	TO	71.	SEE	17	TO	22	ABOVE ***	*
	FCR	67	TO	72.	SEE	36	TO	41	ABOVE ***	*
****	FOR	68	TO	73.	SEE	8	TO	13	ABOVE ***	*
****	FOR	69	TO	74.	SEE		TO	14	ABOVE ***	*
****	FCR	70	TO	75.	SEF		TO	7	ABOVE ***	
****	FCR	82	TO	87.	SEE	2	TO	7	ABOVE ***	
****	FOR	83	TO	88•	SEE	1	TO	6	ABOVE ***	
****	FCR	84	TO	89•	SEE	4	TO	9	ABOVE ***	-
	FOR	85	TO	90•	SEE		TO	10	ABOVE ***	
	FOR	86	TO	91.	SEE		TO	55	ABOVE ***	
	FCR	87	TO	92.	SEE	16	TO	21	ABOVE ***	
	FOR	88	TO	93.	SEE	17		22	ABOVE ***	
	FCR	89	TO	94•	SEE	36		41	ABOVE ***	
	FOR	90	TO	95•	SEE		TO	13		
	FCR	91	TO	96,	SEE	42 18	TO TO	47 23	ABOVE ***	
	FOR	92 93	TO TO	97. 98.	SEE SEE		TO	24	ABOVE ***	
**** (FOR	98	TO	103	366		TO	109	3	6
788		99	TO	104			TO	110	3	6
	FOR	106	TO	iii.	SEE		TO	14	ABOVE ***	_
	FOR	107	TO	112.	SEE	2	TO	7	ABOVE ***	
	FOR	108	TO	113.	SEE	17	TO	22	ABOVE ***	*
	FOR	109	TO	114.	SEE	36	TO	41	ABOVE ***	*
	FCR	110	TO	115.	SEE	8	TO	13	ABOVE ***	*
****	FOR	111	TO	116.	SEE	9	TO	14	ABOVE ***	*
****	FOR	112	TO	117.	SEE	2	TO	7	ABOVE ***	*
****	FOR	113	TO	118.	SEE		TO		ABOVE ***	
	FCR	114	TO	119.	SEE	36	TO	41	ABOVE ***	
****		117		122.	SEE	14		19	ABOVE ***	∓
****	FCR		TO	123.	SEE	15			ABOVE ***	
789		119		124		130		135	3	6
750		119		124		134		139	3	6
791		119	TO	124		139 148		144 153	3 3	6 6
792		119		124 124		241		246	3	6
793 ****		119 120	TO TO	125.	SEF		10		ABOVE ***	
**** (LOR	120		12 J T	JLI	-				

PATTE	ERN	•	NCTE	S	RELATED 1	re i	NOTI	ES	TE	s T	LE	NG TH
****	FCR	121	TO	126.	SEE	50	TO	55	ABOVE	**	**	
****	FOR	122	TO	127			TO	124	ABOVE	**	**	
****	FCR	123	TO	128.	SEE	13	TO	18	ABOVE	**	**	
****	FCR	129	TO	134.		8	TO	13	ABOVE	**:	**	
****	FOR	130	TO	135.	SEE	42	TO	47	ABOVE	**	**	
****	FOR	131	TO	136.		18	TO	23	ABOVE	**	**	
****	FOR	132	TC	137.			TO	24	ABOVE	**	**	
****	FCR	133	TO	138,	SEE	20	TO	25	ABOVE	**	**	
****	FOR	134	TO	139.	SEE	42	TO	47	ABOVE	**	**	
****	FOR	135	TO	140.	SEE	18	TO	23	ABOVE	**	**	
****	FCR	138	TO	143.	SEE	20	TO	25	ABOVE	**	**	
****	FOR	139	TO	144.	SEE	42	TO	47	ABOVE	**	**	
****	FOR	140	TO	145.	SEE	36	TO	41	ABOVE	**:	**	
****	FOR	143	TO	148.	SEE	50	TO	55	ABOVE	**	**	
****	FOR	144	TO	149.	SEE	16	TO	21	ABOVE	**	**	
****	FOR	145	TO	150.	SEE	17	TO	22	ABOVE	**	**	
****	FOR	146	TO	151.	SEE	36	TO	41	ABOVE	***	**	
****	FOR	147	TO	152.	SEE	8	TO	13	ABOVE	**		
****	FOR	148	TO	153.	SEE	42	TO	47	ABOVE	**:	**	
****	FOR	149	TO	154,	SEE	36	TO	41	ABOVE	**	**	
****	FOR	152	TO	157.	SEE		TO	55	ABOVE	**		
****	FOR	153	TO	158.			TO	21	ABOVE	**		
****	FCR	154	TO	159,			TO	22	ABOVE	**		
****	FOR	155	TO	160.			TO	41	ABOVE	**:		
****	FOR	156	TO	161.			TO	13	ABOVE	**		
****	FOR	157	TO	162.			TO	14	ABOVE	**:		
****	FOR	162	TO	167.			TO	9	ABOVE	***		
****	FOR	163	TO	168,			TO	10	ABOVE	**		
****	FOR	164	TO	169.			TO	55	ABOVE	***		
	FOR	165	TO	170.			TO	21	ABOVE	**		
****	FOR	166	TO	171.	SEE		TO	6	ABOVE		FŦ	
794		167	TO	172		177	TO	182	-	3		6
799		167	TO	172			TO	210		3		6
796		167	TO	172		215	TO TO	220		3 3		6
757		168	TO	173		178 179	TO	183 184		3		6
798		169	TO	174	cee		TO	174	ABOVE			0
****		169	TO TO	174. 175	SEE	180	TO	185	ABUVE			6
759		170 171	TO	176.	SEE		TO	70	ABOVE		**	U
	FOR	172	TO	177			TO	6	ABOVE	**		
****	FOR FOR	173	TO	178		_	TO	9	ABOVE	**		
****	FCR	174	TO	179			TO	10	ABOVE	**		
****	FOR	175	TO	180			TO		ABOVE	**:		
****	FOR	176	TO	181.			TO	21	ABOVE	**	**	
****	FOR	182	TO	187.			TO	9	ABOVE	**	**	
****	FOR	183	ΤO	188				18	ABOVE	**	**	
****	FOR	184	τo	189			TO	19	ABOVE	**:	**	
****	FOR	185	TO	190			TO	20	ABOVE	**:	**	
****	FOR	186	TO	191.			TO	124	ABOVE	***	**	
****	FOR	187	TO	192			TO	10	ABOVE	**:	**	
****	FOR	188	TO	193.			TO		ABOVE	**	**	
***	,											

PATTERN	NGTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	189 TO 19	4. SEE	16 TO 21	ABOVE ****
**** FOR		5. SEE	17 TO 22	ABOVE ***
**** FOR	191 TO 19	6. SEE	36 TO 41	ABOVE ****
**** FOR	194 TO 19	9. SEE	50 TO 55	ABOVE ****
**** FOR	195 TO 20	O• SEE	16 TO 21	ABOVE ****
**** FOR	196 TO 20	1. SEE	17 TO 22	ABOVE ****
**** FOR	197 TO 20	2. SEE	18 TO 23	ABOVE ****
**** FOR		7. SEE		ABOVE ****
**** FOR		8. SEE	9 TO 14	ABOVE ****
**** FCR		9. SEE	2 TO 7	ABOVE ****
**** FCR		.2. SEE	63 TO 68	ABOVE ****
**** FCR		3. SEF	64 TO 69	ABOVE ****
800	210 TO 21		216 TO 221	3 6
**** FOR		8. SEE	4 TO 9	ABOVE ****
**** FOR		9. SEE	5 TO 10	ABOVE ****
**** FCR		SEE SEE	50 TO 55	ABOVE ****
**** FOR		- ·	5 TO 10	ABOVE ****
**** FOR		SEE SS• SEE	50 TO 55	ABOVE ****
**** FOR **** FCR		14. SEE	119 TO 124	ABOVE ****
**** FOR		5. SEE	5 TO 10	ABOVE ***
**** FCR		6. SEE		ABOVE ****
**** FCR		7. SEE		ABOVE ****
**** FOR		8. SEE	13 TO 18	ABOVE ****
**** FOR		9. SEE	14 TO 19	ABOVE ****
**** FOR		O. SEE		ABOVE ****
**** FOR		1. SEF	16 TO 21	ABOVE ****
**** FCR		2. SEE	17 TO 22	ABOVE ****
**** FOR	238 TO 24	3. SEE	18 TO 23	ABOVE ****
**** FOR	239 TO 24	4. SEE	19 TO 24	ABOVE ****
**** FCR		5. SEE	20 TO 25	ABOVE ***
**** FOR		6. SEE	42 TO 47	ABOVE ****
**** FOR		7. SEE	36 TO 41	ABOVE ****
**** FOR		SO. SEE	50 TO 55	ABOVE ****
**** FOR		1. SEE	16 TO 21	ABOVE ****
**** FOR		2. SEE	17 TO 22	ABOVE ****
**** FCR	•	3. SEE	36 TO 41	ABOVE ****
**** FCR		6. SEE	50 TO 55	ABOVE ****
**** FCR		7. SEE	16 TO 21	ABOVE ****
**** FOR		8. SEE	17 TO 22	ABOVE ****
**** FOR	254 TO 25	9. SEE	18 TO 23	ABOVE ****

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 692 SECONDS INTO EXECUTION.

PA TTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
61 60 60 60 60 60 60 60 60 60 60 60 60 60	1 TO	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10 TO 16 28 TO 34 30 TO 36 32 TO 38 70 TO 76 72 TO 78 74 TO 80 76 TO 82 78 TO 84 80 TO 86 82 TO 88 158 TO 164 160 TO 166 29 TO 35 31 TO 37 33 TO 39 52 TO 58 71 TO 77 73 TO 79 75 TO 81 77 TO 83 79 TO 85 81 TO 87 159 TO 165 35 TO 41 54 TO 60 66 TO 72 88 TO 94 108 TO 114	3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7
83 83 83 83 83 83 83 83 84 84 84 84 84 84 84 84	4 TO 1 4 TO 1 4 TO 1 5 TO 1	0 0 0 0 10 11 11 11 11 11	113 TO 119 145 TO 151 154 TO 160 190 TO 196 247 TO 253 36 TO 42 47 TO 53 58 TO 64 114 TO 120 140 TO 146 149 TO 155 191 TO 197 242 TO 248 248 TO 254 37 TO 43	3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7

PA TTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
£45 £46		2 2	48 TO 54 59 TO 65	3 3	7 7
847	6 TO 1	2	141 TO 147	3	7
8 48		2	150 TO 156	3	7
£ 49		2	192 TO 198	3	7
8 50		2 2	243 TO 249 249 TO 255	3 3	7 7
<i>e</i> 51 <i>e</i> 52		2 3	49 TO 55	3	7
8 53		3	142 TO 148	3	7
2 54		3	151 TO 157	3	7
£ 55		3	193 TO 199	3	7
8 56	7 TO 1	3	244 TO 250	3	7
857		3	250 TO 256	3	7
858		4	50 TO 56	3	7
859		4	86 TO 92	3	7
860 861		4 4	143 TO 149 152 TO 158	3 3	7 7
862		4	164 TO 170	3	7
863		4	175 TO 181	3	7
864		4	188 TO 194	3	7
865		4	194 TO 200	3	7
866	8 TO 1	4	245 TO 251	3	7
86 7		4	251 TO 257	3	7
86 <i>8</i>		5	51 TO 57	3	7
869		5	165 TO 171	3	7
87 D 87 E		9	24 TO 30	3	7
87 E		9 9	43 TO 49 92 TO 98	3 3	7 7
873		9	131 TO 137	3	7
874		9	238 TO 244	3	7
175		Ó	25 TO 31	3	7
876		Ö	44 TO 50	3	7
877	14 TO 2	0	132 TO 138	3	7
878		0	239 TO 245	3	7
879	15 TO 2	_	26 TO 32	3	7
68 D	15 TO 2		202 TO 208	3	7
88 2		3	182 TO 188 183 TO 189	3 3	7 7
883		4 4	233 TO 239	3	7
88 👟		5	117 TO 123	3	ż
885		5	184 TO 190	3	7
388	19 70 2	5	234 TO 240	3	7
887		6	235 TO 241	3	7
8 8 8 C 8 8		8	122 TO 128	3	7
83 0 a.a		8	232 TO 238	3	7
851		6	68 TO 74 110 TO 116	3 3	7 7
892		6 6	156 TO 162	3	7
863		o 9	211 TO 217	3	7
854		0	212 TO 218	3	7
855		ĭ	181 TO 187	3	7

PATTERN	NCTES	RELATED TC NOTES	TEST LFNGTH
856	65 10 71	222 TO 22	8 3 7
85 7	98 TO 104	104 TO 11	0 3 7
898	119 TO 125	139 TO 14	5 3 7
899	119 TO 125	148 TO 15	4 3 7
960	119 TO 125	241 TO 24	7 3 7
9C1	167 TO 173	177 TO 18	3 3 7
9 <i>C 2</i>	168 TO 174	178 TO 18	4 3 7
903	169 TO 175	179 TO 18	5 3 7
904	170 TO 176	180 TO 18	6 3 7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 716 SECONDS INTO EXECUTION.

PATTERN	NOTES		RELATED	τc	N	OTE	S	TEST	LENGTH
905 906	1 TO 1 TO	8 8				TO TO	35 37	3	8 8
907	1 TO	8			32	TO.	39	3	8
908	1 TO	8			70	TO	77	3	8
909	1 TO	8			72	TO	79	3	8
91 0	1 10	8			74	TO	81	3	8
91 I	1 TO	8			76	TO	83	3	8
91 2	1 TO	8			78	TO	85	3	8
913	1 10	8				TO	87	3	8
91 4 91 5	1 TO 2 TO	8 9				TO TO	165 40	3 3	8 8
91.6	2 10	9			52	TO	59	3	8
917	4 TO	11			35	TO	42	3	8
918	4 TO	11			113	TO	120	3	8
519	4 TO	11			190	TO	197	3	8
920	4 TO	11			247	TO	254	3	8
921	5 TO	12			36	TO	43	3	8
922	5 TO	12				TO	54	3	8
923 924	5 TO	12			58	TO	65	3	8
925	5 TO 5 TO	12				TO TO	147 156	3 3	8 8
926	5 TO	12				TO	198	3	8
927	5 TO	12			242	TO	249	3	8
928	5 10	12				TO	255	3	8
929	6 TO	13			48	TO	55	3	8
930	6 TO	13			141	TO	148	3	8
931 932	6 TO	13			150	TO	157	3	8
93 2 93 3	6 10	13			192	TO	199	3	8
934	6 TO	13 13				TO TO	250 256	3	8 8
935	6 TO 7 TO	14			49	TO	25 6	3 3	8
936	7 10	14				TO	149	3	8
93 🕝	7 10	14				TO	158	3	8
938	7 10	14			193	TO	200	3	8
939	7 10	14				TO	251	3	8
94 0 94 1	7 TO	14				TO	257	3	8
942	8 TO	15			50	TO	57	3	8
943	8 TO	15				TO	171	3	8
944	9 TO 13 TO	16			51 24	TO TO	58 31	3 3	8 8
945	13 TO	20			43	TO	50	3	8
946	13 TO	20			131	TO	138	3	8
947	13 TO	20			238	TO	245	3	8
948	14 TO	21			25		32	3	8

PATTERN	1	NCTE	S	RELATED	TO	1	NOTE	S	TEST	LENG TH
549	17	TO	24			182	TO	189	3	8
950	18	TO	25			183	TO	190	3	8
951	18	TO	25			233	TO	240	3	8
952	19	TO	26			234	TO	241	3	8
953	42	TO	49			232	TO	239	3	8
954	50	TO	57			68	TO	75	3	8
955	50	10	57			110	TO	117	3	8
956	50	TO	57			156	TO	163	3	8
957	63	TO	70			211	TO	218	3	8
958	65	TO	72			222	TO	229	3	8
959	167	TO	174			177	TO	184	3	8
96 C	168	TO	175			178	TO	185	3	8
961	169	TO	176			179	TO	186	3	8

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 736 SECONDS INTO EXECUTION.

PATTERN	N	OTES		RELATED	TC	١	NOTE	S	TEST	LENGTH
96 <i>2</i>	1	TO	9				TO	40	3	9
963	2	TO	10			33	TO	41	3	9
964	2	TO	10			52	TO	60	3	9
965	4	TO	12			35	TO	43	3	9
966		TO	12			190	TO	198	3	9
967	4	TO	12			247	TO	255	3	9
968	5	TO	13				TO	55	3	9
969	5	TO	13			140	TO	148	3	9
970	5	10	13			149	TO	157	3	9
9 7 1	-	TO	13			191	TO	199	3	9
97 <i>2</i>	5	TO	13			242	TO	250	3	9
973	5	TO	13			248	TO	256	3	9
974	6	TO	14			48	TO	56	3	9
57 5	6	TO	14			141	TO	149	3	9
976	6	TO	14			150	TO	158	3	9
977		TO	14			192	TO	200	3	9
57 8	6	TO	14			243	TO	251	3	9
979		TO	14			249	TO	257	3	9
980		TO	15			49	TO	57	3	9
581	8	TO	16			50	TO	58	3	9
982	9	TO	17			51	TO	59	3	9
983 984	13	TO	21			24	TO	32	3	9
985	17	TO	25			182	TO	190	3	9
986		TO	26				TO	241	3	9
987	42	TO	50			232	TO	240	3	9
988	50	TO	58			68	TO	76	3	9
98 9	50	TO	58			156	TO	164	3	9
990	-	TO	73			222	TO	230	3	9
99 1			175			177	TO	185	3	9
***	168	TO :	176			178	10	186	3	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 754 SECONDS INTO EXECUTION.

PATTERN	NCTE	S	RELATED	TC	ħ	NOTE	S	TEST	LENGTH
992	1 TO	10			32	TO	41	3	10
55 3	2 TO	11			33	TO	42	3	10
994	4 TO	13			190	TO	199	3	10
9 9 5	4 TO	13			247	TO	256	3	10
996	5 TO	14			47	TO	56	3	10
957	5 TO	14			140	TO	149	3	10
998	5 TO	14			149	TO	158	3	10
999	5 TO	14			191	TO	200	3	10
1000	5 TO	14			242	TO	251	3	10
1001	5 TO	14			248	TO	257	3	10
1002	6 TO	15			48	TO	57	3	10
10C 3	7 TO	16			49	TO	58	3	10
100-	8 TO	17			50	TO	59	3	10
1005	167 TO	176			177	TO	186	3	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 770 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TC	NOTES	TEST	LENGTH
1006	1 TO 1	11	32 TO 42	3	11
1CC 7	2 TO 1	12	33 TO 43	3	11
1C C 8	4 10	14	190 TO 200	3	11
1009	4 TO 1	14	247 TO 257	3	11
1010	5 10	15	47 TO 57	3	11
10 I 1	6 TO 1	16	48 TO 58	3	11
1012	7 TO 1	17	49 TO 59	3	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 786 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENG TH
1013	1 TO	12	32 TO 43	3	12
1014	5 TO	16	47 TO 58	3	12
1C 1 5	6 TO	17	48 TO 59	3	12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -TONAL INVERSION WAS BEGUN AT 801 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
m 016	5 10	17	47 TO 59	3	13

SEARCH FOR PATTERNS CF 14 NOTES IN LENGTH -TONAL INVERSION
WAS BEGUN AT 816 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

FRO OF TYPE I LISTING. TOTAL OF 1016 PATTERNS LOCATED.

*** TYPE II LISTING ***

EDGARD VARESE TCAAL INVERSION DENSITY 21.5 FOR SOLO FLUTF

	LOCAT OF FI OCCURR	RST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
€ ₱ IGINAL PATTERN	5 TO	17	2	13	
SUBPATTERN	5 TO	14	7	10	
SUBPATTERN	6 TO	14	7	9	
SUBPATTERN	5 TO	13	7	9	
SUBPATTERN	7 TO	14	7	8	
SUBPATTERN	6 TO	13	7	8	
SUBPATTERN	5 TO	12	9	8	
SUBPATTERN	8 TO	14	11	8 7	
SUBPATTERN	7 TO	13	7	7	
SUBPATTERN	6 TO	12	9	7	
SUBPATTERN	5 TO	11	10	7	
SUBPATTERN	9 TO	14	13	6	
SUBPATTERN	8 TO	13	15	6	
SUBPATTERN	7 TO	12	9	6	
SUBPATTERN	6 TO	11	10	6	
SUBPATTERN	5 TO	10	16	6	
SUBPATTERN	9 TO	13	20		
SUBPATTERN	8 TO	12	17	5 5 5	
SUBPATTERN	7 TO	11	10	5	
SUBPATTERN	6 TO	10	18	5	
SLBPATTERN	5 TO	9	25	5 5	
SUBPATTERN	9 TO	12	22	4	
SUBPATTERN	8 TO	11	22	4	
SUBPATTERN	7 TO	10	27	4	
SUBPATTERN	6 TO	9	27	4	

^{***} TEST 3 COMPLETED AT 1000 SECONDS INTO EXECUTION ****

MUSIC MELODIC PATTERN ANALYSIS

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 4
UNITS OF DATA PER CARD 15

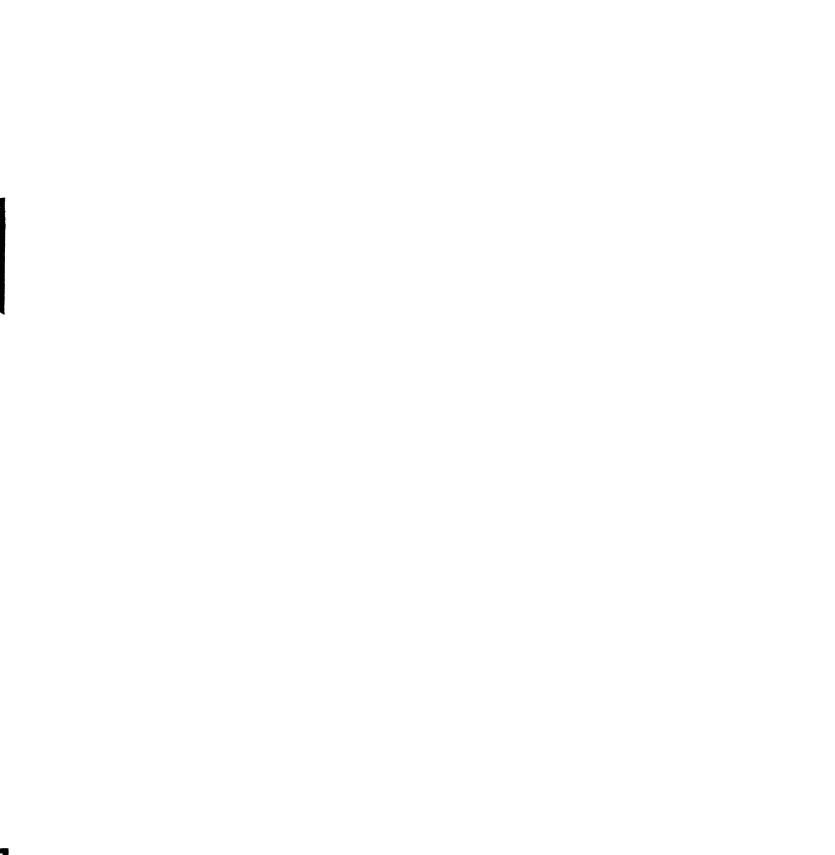
CCMPLTER REFERENCE NUMBER ASSIGNMENT

NO TES	54	1 TH 5 6	ROUGI 51	1 56	15 51	57	55	54	56	57	51	57	56	57
NC TES	54	6 TH	RCUGI 57	1 51	30 57	59	60	57	60	57	60	62	63	62
NC TES	62 ³	1 TH 63	ROUGI 62	ł 63	45 62	63	62	64	70	64	58	64	70	53
NC TES						66	65	67	65	67	65	66	68	55
NOTES 56						59	61	58	61	75	74	75	74	75
NCTES 74						74	75	74	75	74	76	61	60	61
MCTES 59						75	74	74	74	54	51	54	51	51
NOTES 51	106 54	6 TH 64	ROUGI 51	1 1 64	.20 51	52	58	54	58	52	65	81	80	68
NCTES 67	81	1 TH 80	ROUGI 68	1 1 81	.35 80	68	67	67	57	68	69	56	57	58
NCTES 59	136 54	6 TH 6 C	ROUGI 70	1 73	.50 83	73	80	83	80	73	83	73	80	83
VC1ES	15 80	1 TH 83	ROUGI 80	1 73	.65 83	73	80	83	80	83	80	83	80	83
ACTES 09					.80 65	65	64	65	63	65	64	63	65	63
NCTES 64					.95 61	56	55	57	56	55	57	55	56	57

TES 241 THROUGH 255
54 56 57 54 57 71 60 54 60 50 54 64 54 50 64

FRCM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH



*** TYPE I LISTING ***

EDGARC VARESE DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH --EXACT INVERSION WAS BEGUN AT 28 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED	TC	٨	NOTE	S	TEST	LENGTH
1 2	1 TO 1 TO	3			89 92	TO TO	91 94	4 4	3 3
3	1 TO	3			173	TO	175	4	3
4	1 TO	3			182	TO	184	4	3 3 3
5	1 TO	3			223	TO	225	4	3
6	7 10	9			9	TO	11	4	3 3
7 8	7 TO 7 TO	9			21 27	TO TO	23 29	4 4	3
9	7 TO	9			241	TO	243	4	3
FOR	8 TO	10.	SE	E	1	TO	3	ABOVE ***	_
10	9 TO	11	,		236	TO	238	4	3
11	11 TO	13			18	TO	20	4	3
12	11 TO	13			39	TO	41	4	3
13	13 TO	15			28	TO	30	4	3 3
14	13 TO	15			30	TO	32	4	3
15	13 TO	15			32	10	34	4	3
16	13 TO	15			34	TO	36 38	4	3 3 3 3
17 18	13 TO 13 TO	15 15			36 72	TO TO	74	4 4	3
19	13 70	15			74	TO	76	4	3
20	13 TO	15			76	TO	78	4	3
21	13 TO	15			78	TO	80	4	3
22	13 TO	15			80	TO	82	4	3 3
23	13 TO	15			82	TO	84	4	3
24	13 TO	15			84	TO	86	4	3 3 3 3 3
25	13 TO	15			96	TO	98	4	3
26	13 TO	15			194	TO	196	4	3
27 28	14 TO	16			29	TO	31	4	3
29	14 TO 14 TO	16 16			31 33	TO TO	33 35	4	2
30	14 TO	16			35	TO	37	4	3
31	14 TO	16				TO	65	4	3 3
32	14 TO	16				TO	73	4	3
33	14 TO	16			73	TO	75	4	3
34	14 TO	16				TO	77	4	3
35	14 TO	16				TO	79	4	3
36	14 TO	16			79	TO	81	4	3 3 3 3 3
37	14 TO	16			81	TO	83	4	3
38	14 TO	16			83	TO	85	4	<i>3</i>
39 40	14 TO 14 TO	16 16			88 172	TO	90 174	4	<i>3</i>
40 41	15 TO	17				TO	59	4	3
41	15 10	. ,			<i>-</i> • • • • • • • • • • • • • • • • • • •			•	•

PATTERN	NCTES	RELATED	TO NOTES	TEST LENGTH
42 43	18 TO 18 TO	20 20	41 TO 43 247 TO 249	
→ ++ FOR	19 TO	21. SE		
**** FOR	21 TO	23. SE		ABOVE ****
44	22 TO	24	237 TO 239	4 3
45	23 TO	25	102 TO 104	4 3
46	23 TO	25	143 TO 145	4 3 4 3 4 3
47	23 TO	25	152 TO 154	
48	23 TO	25	158 TO 160	4 3
49	23 TO	25	160 TO 162	4 3 4 3 4 3 4 3
50	23 TO	25	162 TO 164	4 3
51	23 TO	25	164 TO 166	4 3
52	23 TO	25	206 TO 208	4 3
53	23 TO	25	211 TO 213	4 3
54	23 TO	25	214 TO 216	4 3
55	23 TO	25	216 TO 218	4 3
56	23 TO	25	238 TO 240	4 3
57	24 TO	26	68 TO 70	4 3
58	24 TO	26	101 TO 103	4 3
59	24 TO	26	159 TO 161	4 3
60	24 TO	26	161 TO 163	4 3
61	24 TO	26	163 TO 165	4 3
62	24 TO	26	207 TO 209	4 3
63	24 TO	26	210 TO 212	
64	24 TO	26	215 TO 217	4 3
65	24 TO	26	217 TO 219	4 3
66	24 10	26	239 TO 241	4 3
67	24 TO	26	243 TO 245	4 3
**** FCR	25 TO	27. SE		
**** FOR	27 TO	29. SE		ABOVE ****
**** FOR	28 TO	30. SE		
FUR	29 TO	31. SE		
FUR	30 TO	32. SE		
TOP	31 TO	33. SE		ABOVE ***
FUR	32 TO	34. SE		ABOVE ****
AAA AA	33 TO	35. SE		ABOVE ***
AAA A	34 TO	36. SE SE		ABOVE ***
FOR FOR	35 TO 36 TO	37. SE 38. SE		ABOVE ***
**** FCR	37 TO	39. SE		ABOVE ***
**** FOR	39 TO	41. SE		ABOVE ***
68	40 TO	42	42 TO 44	
69	40 TO	42	45 TO 47	
70	40 10	42	46 TO 48	
**** FOR	41 TO	43. SE		ABOVE ***
71	44 TO	46	225 TO 227	
#### FOR	52 10	54. SE		
72	53 TO	55	66 70 68	
73	53 TO	55	174 TO 176	
74	53 TO	55	183 TO 185	
75	54 TO	56	178 TO 180	
17	J7 10	7 •	210 10 200	•

PATTERN	NCTES	R	ELATED TO	NO	OTES	TEST	LENG TH
76	54 TO 55 TO	56 57•	SEE	191 1 53 1		4 ABOVE ***	3
→ ◆ + + FOR 77	55 TO 56 TO	58 58	366		ro 177	4	3
78	56 TO	58			190	4	3
79	59 TO	61		124 1		4	3
** ** FCR	63 TO	65.	SEE			ABOVE ***	*
80	64 TO	66		97 1	ro 99	4	3
81	64 TO	66		127 1	129	4	3
→ ++ FOR	66 TO	68.	SEE	54	ro 56	ABOVE ***	*
* * * FOR	68 TO	70•	SEE	-		ABOVE ***	
→ ** FOR	71 TO	73.	SEE			ABOVE ***	
🍲 🗢 ++ FOR	7 2 TO	74.	SEE		0 16		
◆ ◆ ** FOR	73 TO	75.	SEE		ro 15	ABOVE ***	
* * * FOR	74 TO	76.	SEE		16	ABOVE ***	
* * ** FOR	75 TO	77.	SEE		ro 15	ABOVE ***	
→ → → + FOR	76 TO	78.	SEE		0 16	ABOVE ***	
≠ ≠ FOR	77 TO	79.	SEE		ro 15		
★ ★ ★ FOR	78 TO	80.	SEE		ro 16	ABOVE ***	
→ → → + FOR → → → + FOR	79 TO 80 TO	81.	SEE SEE		10 16		
*** FOR	80 TO 81 TO	82. 83.	SEE	_	0 15	ABOVE ***	
→ → → + FOR	82 TO	84.	SEE		0 16	ABOVE ***	
*** FCR	83 TO	85.	SEF		n 15	ABOVE ***	
*** FOR	84 TO	86.	SEE		16	ABOVE ***	*
*** FOR	85 TO	87.	SEE	_	0 3	ABOVE ***	*
**** FOR	88 TO	90,	SEE		15	ABOVE ***	*
82	89 TO	91			179	4	3
83	89 TO	91		187 1	ro 189	4	3
84	89 TO	91		190	ro 192	4	3
85	89 TO	91			ro 198	4	3
**** FOR	90 TO	92.	SEE		ro 58	ABOVE ***	*
86	91 TO	93		176 1		4	3
87	91 TO	93		189 1		4	3
8 8 **** FC2	91 TO	93		195			3
100	92 10	94.	SEE	89 1		ABOVE ***	
FUR	93 TO	95.	SEE	56 1		ABOVE ***	
FOR B9	96 TO 57 TO	98• 99	SEE	14 1		4	
90		100		104 1			3 3
91		100		221 1			3
*** FOR		103.	SEE	23 1		ABOVE ***	
**** FOR		104.	SEF	24 1		ABOVE ***	
92		105	921	208 1		4	3
\$3		105		218			3
**** FOR		106.	SEE	98 1		ABOVE ***	*
94		107		209 1	ro 211	4	3
**** FCR	110 TO	112.	SEE	59 1		ABOVE ***	
95		126		132			3
**** FOR		129.	SEE	97 1		ABOVE ***	
**** FOR		134.	SEE	59 1		ABOVE ***	
**** FCR	133 TO	135.	SEF	91 1	ro 93	ABOVE ***	*

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
**** FOR	134 TO 136	see	91 TO 93	ABOVE ***	**
**** FOR	143 TO 149		24 TO 26	ABOVE ***	k 🛊 k
◆ ◆ ◆ ◆ FCR	152 TO 154	• SEE	24 TO 26	ABOVE ***	**
★ * * * FCR	158 TO 160		24 TO 26		t aft
→ ++ FOR	159 TO 161		23 TO 25		
	160 TO 163		24 TO 26		
→ ++ FOR	161 TO 163		23 TO 25		_
** ** FOR	162 TO 164		24 TO 26		
* * ** FOR	163 TO 169		23 TO 25		
** ** FOR	164 TO 166		24 TO 26		
96	171 TO 173		181 TO 183		3
97	171 TO 173		222 TO 224		3
* * * FOR	172 TO 174		13 TO 15 89 TO 91	ABOVE ***	
* * * FOR	173 TO 179		54 TO 56		
98	175 TO 177		179 TO 181	4	3
99	175 TO 17		192 TO 194		3
⊉ 00	176 TO 176		193 TO 195		3
→ → FOR	177 TO 179		1 70 3		k 🍁
FOR	178 TO 180		53 TO 55		*
FGR	179 TO 181		56 TO 58	ABOVE ***	: #
*** FOR	180 TO 182	SEE	64 TO 66	ABOVE ***	r a
*** FCR	182 TO 184	• SEE	89 TO 91	ABOVE ***	: *
**** FOR	183 TO 185	SEE SEE	54 TO 56	ABOVE ***	*
**** FOR	187 TO 189	• SEE	1 TO 3		*
**** FOR	188 TO 190		175 TO 177		
*** FOR	189 TO 191		176 TO 178		
**** FCR	190 TO 193		1 TO 3		
**** FOR	191 TO 193		53 TO 55		
FUR PUR	192 TO 194		56 TO 58		
**** FOR	193 TO 199		91 TO 93		
**** FOR	194 TO 196			ABOVE *** ABOVE ***	
**** FOR	195 TO 197			ABOVE ***	
101	199 TO 201		226 TO 228		3
165	199 TO 201		229 TO 231		3
103	199 TO 201		232 TO 234		3
**** FOR	206 TO 208			ABOVE ***	: \$
**** FOR	207 TO 209		23 TO 25		
104	208 TO 210)	212 TO 214	4	3
105	209 TO 211		213 TO 215		3
*** FOR	210 TO 212	?• SEE		ABOVE ***	ca ķ t
**** FOR	211 TO 213			ABOVE ***	
**** FOR	212 TO 214			ABOVE ***	
**** FOR	213 TO 219			ABOVE ***	
**** FGR	214 TO 210			AROVE ***	
#### FOR	215 TO 217			ABOVE ***	
**** FOR **** FOR	216 TO 216			ABOVE *** ABOVE ***	
**** FOR **** FOR	217 TO 219 218 TO 229			ABOVE ***	
**** FCR	218 TO 220 221 TO 223			ABOVE ***	
TTT FUR	261 10 62	,, 3FE	70 10 100	ADDAF AAA	. •

PATTERN	NOTES	RELATED TO	NOTES	TEST	L ENG TH
**** FCR	223 TO 225	• • •		ABOVE ***	
**** FOR 106	236 TO 238 237 TO 239		7 TO 9 242 TO 244	ABOVE ***	3
**** FOR **** FCR	238 TO 240 239 TO 241	•		ABOVE ***	
**** FCR **** FOR	241 TO 243 242 TO 244	•	9 TO 11 22 TO 24	ABOVE ***	
**** FOR	243 TO 245	• SEE	23 TO 25	ABOVE ***	*
**** FOR	247 TO 249	• SEE	11 TO 13	ABOVE ***	*

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -EXACT INVERSION WAS BEGUN AT 195 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO	NOTES		TEST	LENGTH
1C 7 1 C 8	13 TO 16		2	8 TO 0 TO	31 33	4	4
109	13 TO 1			2 TO	35	4	4
110	13 TO 1		3		37	4	4
111	13 TO 1			2 TO	75	4	4
112	13 TO 1			4 TO	77	4	4
113	13 TO 1		7		79	4	4
114	13 70 1		7		81	4	4
115	13 70 1		8		83	4	4
116	13 TO 16		8		85	4	4
117	21 TO 24		23		239 240	4	4
118 119	23 TO 2		15		161	4	4
120	23 10 2		16		163	4	4
121	23 TO 2			_	165	4	4
122	23 TO 2		20		209	4	4
123	23 TO 2		21		217	4	4
124	23 TO 20		21		219	4	4
125	23 TO 2		23		241	4	4
126	24 TO 2	7	10	1 TO	104	4	4
127	24 TO 2	7	15	9 TO	162	4	4
128	24 TO 2		16		164	4	4
129	24 TO 2		16		166	4	4
130	24 TO 2		21		213	4	4
131	24 TO 2				218	4	4
132	28 TO 3			1 10	34	4	4
133	28 TO 3		3		36	4	4
134	28 TO 3:		3	5 TO 1 TO	38	4	4
135	28 TO 3.		7		74 76	4 4	4
136 137	28 TO 3			5 TO	78	4	4
138	28 TO 3			7 TO	80	4	4
139	28 TO 3			9 TO	82	4	4
140	28 TO 3			1 TO	84	4	4
141	28 TO 3			3 TO	86	4	4
**** FOR		2. SE	E 1	3 TO		ABOVE ***	ķ
**** FOR			E 2	8 TO	31	ABOVE ***	k
**** FCR	31 TO 34		E 1			ABOVE ***	
**** FOR			E 2			ABOVE ***	
**** FOR			E 1			ABOVE ***	
**** FOR			E 2		31	ABOVE ***	
**** FOR				3 TO		ABOVE ***	
142	36 TO 39			8 TO	91	4	4
143	36 TO 3	•	17	2 TO	175	4	4

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
144	52 TO 55	;	173 TO 176	4	4
145	52 TO 55	;	182 TO 185	4	4
146	55 TO 58	}	174 TO 177	4	4
147	63 TO 66)	96 TO 99	4	4
**** FOR	71 TO 74		13 TO 16	ABOVE ***	*
**** FOR	72 TO 75	• SEE	28 TO 31	ABOVE ***	*
**** FCR	73 TO 76	• SEE	13 TO 16	ABOVE ***	*
**** FOR	74 TO 77	• SEE	28 TO 31	ABOVE ***	*
**** FOR	75 TO 78	• SEE	13 TO 16	ABOVE ***	*
**** FCR	76 TO 79		28 TO 31	ABOVE ***	*
**** FOR	77 TO 80	• SEE	13 TO 16	ABOVE ***	*
**** FOR	78 TO 81	• SEE	28 TO 31	ABOVE ***	*
**** FOR	79 TO 82	• SEE	13 TO 16		*
**** FOR	80 TO 83	• SEE	28 TO 31	ABOVE ***	
**** FCR	81 TO 84		13 TO 16		
**** FOR	82 TO 85		28 TO 31	ABOVE ***	
**** FCR	83 TO 86	• SEE	13 TO 16	ABOVE ***	*
**** FOR	84 TO 87	see	36 TO 39	ABOVE ***	*
148	89 TO 92		187 TO 190	4	4
149	90 TO 93		175 TO 178	4	4
150	90 10 93	}	188 TO 191	4	4
151	91 TO 94	•	176 TO 179	4	4
152	91 TO 94	•	189 TO 192	4	4
153	91 TO 94	•	195 TO 198	4	4
**** FOR	92 TO 95	• SEE	89 TO 92	ABOVE ***	*
**** FOR	101 TO 104	• SEE	23 TO 26	ABOVE ***	*
154	102 TO 105		207 TO 210	4	4
155	102 TO 105	}	217 TO 220	4	4
**** FOR	158 TO 161	• SEE	24 TO 27	ABOVE ***	*
**** FOR	159 TO 162	SEE	23 TO 26	ABOVE ***	*
**** FOR	160 TO 163	• SEE	24 TO 27	ABOVE ***	*
**** FOR	161 TO 164	• SEF	23 TO 26	ABOVE ***	*
**** FOR	162 TO 165	• SEE	24 TO 27	ABOVE ***	*
**** FOR	163 TO 166	• SEE	23 TO 26	ABOVE ***	*
156	173 TO 176	•	177 TO 180	4	4
157	173 TO 176	•	190 TO 193	4	4
158	174 TO 177	•	178 TO 181	4	4
159	174 TO 177	•	191 TO 194	4	4
160	175 TO 178	}	192 TO 195	4	4
**** FOR	177 TO 180			ABOVE ***	
**** FOR	178 TO 181		55 TO 58		
**** FOR	182 TO 185	• SEE	173 TO 176		
**** FOR	188 TO 191		175 TO 178		
**** FOR	190 TO 193			ABOVE ***	
**** FOR	191 TO 194		55 TO 58		
**** FCR	192 TO 195			ABOVE ***	
**** FOR	206 TO 209		24 TO 27		
161	2C7 TO 210		211 TO 214	4	4
162	208 TO 211		212 TO 215	4	4
163	2C9 TO 212		213 TO 216	4	4
**** FCR	210 TO 213	see	23 TO 26	ABOVE ***	*

PATTERN	NCTES	RELATED TO	NOTES	TEST L	ENGTH
**** FOR	211 TO 214	• SEE	102 TO 105	ABOVE ****	:
**** FOR	214 TO 217	• SEE	24 TO 27	ABOVE ***	:
**** FCR	215 TO 218	• SEE	23 TO 26	ABOVE ****	
**** FOR	216 TO 219	• SEE	24 TO 27	ABOVE ****	
**** FCR	217 TO 220	• SEE	207 TO 210	ABOVE ****	:
164	236 TO 239		241 TO 244	4	4
165	237 TO 240		242 TO 245	4	4
**** FOR	238 TO 241	• SEE	24 TO 27	ABOVE ***	
**** FCR	241 TO 244	SEE	21 TO 24	ABOVE ***	
**** FCR	242 TO 245	-		ABOVE ***	

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -EXACT INVERSION WAS BEGUN AT 255 SECONDS INTO EXECUTION.

PATTERN	NOTES		RELATED TO	NOTE	S	TEST	LENGTH
166	21 TO	25		236 TO	240	4	5
**** FOR	21 TO	25	SEE	21 TO	25	ABOVE ***	*
167	22 TO	26		237 TO	241	4	5
168	89 TO	93		187 TO	191	4	5
169	90 TO	94		175 TO	179	4	5 5 5
170	90 TO	94		188 TO	192	4	5
**** FOR	90 TO	94	SEE	90 TO	94	ABOVE ***	*
171	101 TO	105		206 TO	210	4	5
172	101 TO	105		216 TO	220	4	5
173	173 TO			177 TO	181	4	5 5
174	173 TO	177		190 TO	194	4	5
**** FOR	173 TO	177	SEÉ	173 TO	177	ABOVE ***	*
175	174 TO			191 TO	195	4	5
**** FOR	174 TO		SEE	174 TO		ABOVE ***	*
176	206 TO			210 TO	214	4	5
177	207 TO			211 TO	215	4	5
**** FOR	207 TO	211	SEE	207 TO	211	ABOVE ***	*
178	208 TO	212		212 TO	216	4	5
179	209 TO			213 TO	217	4	5
**** FOR	210 TC	214	SEE	101 TO	105	ABOVE ***	*
**** FOR	216 TC	220	SEE	206 TO	210	ABOVE ***	*
180	236 TO			241 TO	245	4	5
**** FOR	236 TO			236 TO		ABOVE ***	*
**** FOR	241 TO			21 TO	25	ABOVE ***	

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -EXACT INVERSION WAS BEGUN AT 311 SECONDS INTO EXECUTION.

PATTERN	NOTE	S	RELATED TO	NOTES	TEST	LENGTH
181	21 TO	26		236 TO 241	4	6
182	89 TO	94		187 TO 192	4	6
183	173 TO	178		190 TO 195	4	6

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH --EXACT INVERSION WAS BEGUN AT 361 SECONDS INTO EXECUTION.

PATTERN NCTES RELATED TO NOTES TEST LENGTH

ENC OF TYPE I LISTING. TOTAL OF 183 PATTERNS LOCATED.

*** TYPE II LISTING ***

EDEARD VARESE EXACT INVERSION

DENSITY 21.5 FOR SOLO FLUTE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	173 TO 178	2	6	
ORIGINAL PATTERN	89 TC 94	2	6	
SUPPATTERN	91 TO 94	4	4	
SUBPATTERN	91 TO 93	4 5	4 3 3	
SUBPATTERN	89 TO 91	5	3	
ORIGINAL PATTERN	21 TO 26	2	6	
SUBPATTERN	23 TO 26	8	4	
SUPPATTERN	24 TO 26	12	4 3 3	
SUBPATTERN	23 TO 25	13	3	

**** TEST 4 COMPLETED AT 493 SECONDS INTO EXECUTION ****

******* *** MUSIC MELODIC PATTERN ANALYSIS *********

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 5
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

		RCUGH										
55	54 56	51 56	51	57	55	54	56	57	51	57	56	57
NCTES	16 TH	IRCUGH	30									
56	54 51	57 51	57	59	60	57	60	57	60	62	63	62
MOTES	21 TH	ROUGH	45									
£3	62 63	62 63	62	63	62	64	70	64	58	64	70	53
	NCTES 46 THROUGH 60											
		59 72		66	65	67	65	67	65	66	68	55
NCTES	61 TH	RCUGH 60 61	75	50	61	5.0	61	75	74	75	74	75
20	91 61	60 81	01	29	01	76	01	,,	14	• •	14	• •
		RCUGH							٠.			
74	75 74	75 74	75	74	75	74	75	74	76	61	60	61
		IR CUGH 1										
55	6C 61	59 60	74	75	74	74	74	54	51	54	51	51
ACTES	106 TH	IRCUGH 1	120									
51	54 64	51 64	51	52	58	54	58	52	65	81	80	68
NOTES	121 70	ומכווכא ז	25									
NUTES 67		IRCUGH 1 68 81		68	67	67	57	68	69	56	57	58
					- •							
NCTES 55	136 TH	IRCUGH 1 70 73	150	72	9.0	92	81)	72	82	72	80	83
29	54 CU	10 13	6.5	13	80	63	00	13	(,)	• •	00	
		IRCUGH 1										
73	EG E3	80 73	83	73	80	83	80	83	80	83	80	83
NCTES	166 TH	RCUGH 1	180									
80	73 74	65 74	65	65	64	65	63	65	64	63	65	63
ACTES	181 TH	RCUGH	195									
		£3 65		56	55	57	56	55	57	55	56	57

NOTES 196 THROUGH 210 56 55 57 52 58 59 66 72 75 90 85 88 85 88 88 NOTES 211 THRCUGH 225 £5 8E £5 £5 88 £5 88 85 88 88 58 58 58 59 57 NCTES 226 THRCUGH 240 74 68 67 74 68 67 74 68 67 74 54 52 51 54 51 NCTES 241 THROUGH 255 54 56 57 54 57 71 60 54 60 50 54 64 54 50 64 NC TES 256 THRCUGH 265 5C 54 60 64 68 75 77 79 85 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FR CM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

*** TYPE I LISTING ***

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH --TONAL RETROGRADE WAS BEGUN AT 31 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
12345678901234567890123456789012345678	1 TO	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	NOTES 3 TO 5 5 TO 7 8 TO 10 11 TO 13 13 TO 15 17 TO 19 19 TO 21 23 TO 25 25 TO 27 29 TO 31 31 TO 33 33 TO 35 35 TO 37 37 TO 39 41 TO 43 44 TO 46 48 TO 50 52 TO 54 54 TO 56 56 TO 58 59 TO 61 63 TO 65 66 TO 68 68 TO 70 71 TO 73 73 TO 75 75 TO 77 77 TO 79 79 TO 81 81 TO 83 83 TO 85 85 TO 87 88 TO 90 90 TO 92 93 TO 95 101 TO 103 108 TO 110 110 TO 112	TES 555555555555555555555555555555555555	1 ENG TH 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
39 40 41 42	1 TO 1 TO 1 TO 1 TO	3 3 3 3 3 3 3	113 TO 115 115 TO 117 120 TO 122 123 TO 125	5 5 5 5	3 3 3 3

PATTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
44 44 45 44 45 47 48 49 50 51 52 53 53 54 55 55 55 55 55 55 55 55 55 55 56 56 56	1 TC 3 1 TC 3 1 TC 3 1 TO 3		129 TO 131 132 TO 134 136 TO 138 141 TO 143 145 TO 147 147 TO 149 150 TO 152 154 TO 156 156 TO 158 159 TO 161 161 TO 163 163 TO 165 166 TO 168 168 TO 170 172 TO 174 174 TO 176 177 TO 179 179 TO 181 183 TO 185 187 TO 189 190 TO 192 192 TO 194	555555555555555555555555555555555555555	LENGTH 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
666677777777777	1 TO 3		192 TO 194 196 TO 198 198 TO 200 205 TO 207 207 TO 209 210 TO 212 215 TO 217 217 TO 219 224 TO 226 227 TO 229 230 TO 232	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 3 3 3 3 3 3 3
77777888888888888888888888888888888888	1 TO 3 2 TO 4 2 TO 4		233 TO 235 237 TO 239 239 TO 241 243 TO 245 247 TO 249 249 TO 251 253 TO 255 255 TO 257 4 TO 6 6 TO 8 10 TO 12	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 3 3 3 3 3 3 3 3 3
66 88 89 51 53	2 TO 4 2 TO 4 2 TO 4 2 TO 4 2 TO 4 2 TO 4 2 TO 4		12 TO 14 14 TO 16 18 TO 20 22 TO 24 24 TO 26 28 TO 30 30 TO 32 32 TO 34	5 5 5 5 5 5 5	3 3 3 3 3 3 3

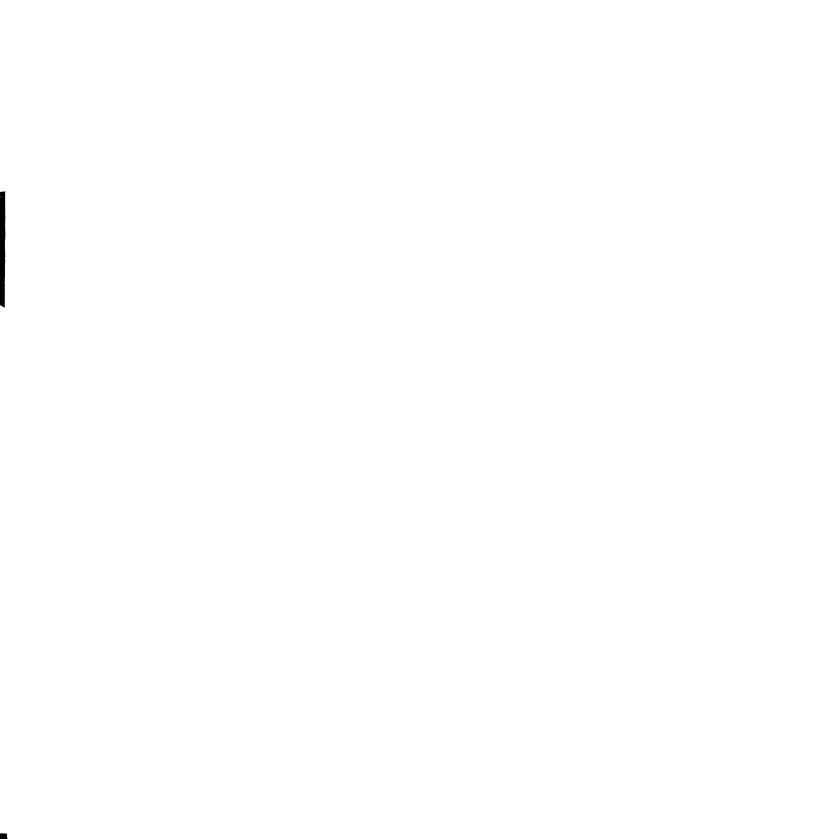
PAT TERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
PAT 999550000000000000011111111111111111111	2 TO 2 TO 2 TO 2 TO 2 TO 2 TO 2 TO 2 TO	RELATED TG 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	34 TO 36 36 TO 38 39 TO 41 43 TO 45 47 TO 49 50 TO 52 53 TO 55 55 TO 57 58 TO 60 61 TO 63 67 TO 72 72 TO 74 74 TO 76 76 TO 78 78 TO 80 80 TO 82 82 TO 84 84 TO 86 80 TO 82 82 TO 84 84 TO 86 86 TO 88 89 TO 91 92 TO 94 96 TO 98 102 TO 104 107 TO 109 109 TO 111 112 TO 114 114 TO 116 117 TO 119 121 TO 123 124 TO 126 131 TO 133 135 TO 137 140 TO 142 143 TO 145 146 TO 148 149 TO 151 152 TO 154 155 TO 157 158 TO 160 160 TO 162	555555555555555555555555555555555555555	333333333333333333333333333333333333333
135 136 137 139 140 144 144	2 TO 2 TO 2 TO 2 TO 2 TO 2 TO 2 TO 2 TO			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 3 3 3 3 3 3 3 3

PAT T	ERN	•	NCTE	S	1	RELAT	ED TO	;	NOTE	S	TES	ST	LE	NGTH
149		2	TO		4			191		193	•			3
146		2	TC		4			194		196		5		3
14		2	TO		4			197		199		5		3 3 3 3 3 3 3 3 3
148		2	TO		4			204		206		5		3
145		2	TO TO		4 4			206 211	TO TO	208 213		5		<i>3</i>
150		2	TO		4			214	TO	216		, 5		3
152		2	TO		4			216		218		5		3
153		2	TO		4			223	TO	225	•			3
154		2	TO		4			225	TO	227	-	5		3
15:		2	TO		4			228	TO	230		5		3
150		2	TO		4			231	TO	233	9	5		3
15	7	2	TO		4			234	TO	236	9			3 3 3 3 3
15		2	TO	•	4			238	TO	240	5			3
15		2	TO		4			242	TO	244	9			3
16		2	TO		4			245	TO	247	9			3
16		2	TO		4			248	TO	250	9			
16	2	2	TO		4			251	TO	253	9			3 3
16		2	TO TO		4		CEE	25 4 1	TO TO	256 3	ABOVE) **	**	3
**	FOR FOR	4	TO		5. 6.		SEE SEE	2	TO	4	ABOVE	**		
**	FOR	5	TO		7,		SEE	1	TO	3	ABOVE	**		
**	FOR	6	TO		8.		SEE	2	TO	4	ABOVE	**		
14 * *	FOR	8	TO		0.		SEE	1	TO	3	ABOVE	**	**	
191 🖚	FOR	10	TO		2.		SEE	2	TO	4	ABOVE	**	**	
***	FOR	11	TO		3.		SEE	1	TO	3	ABOVE	**	**	
***	FOR	12	TO		4,		SEE	2	TO	4	ABOVE	**	**	
***	FOR	13	TO	1	5•		SEE	1	TO	3	ABOVE	**	**	
***	FCR	14	TO		6.		SEE	2	TO	4	ABOVE	**	**	
***	FCR	17	TO		9.		SEE	1	TO	3	ABOVE	**	**	
***	FOR	18	TO		0.		SEE	2	TO	4	ABOVE	**		
11 3	FOR	19	TO		1.		SEE	1	TO	3	ABOVE	**		
***	FCR	22	TO		4.		SEE	2	TO	4	ABOVE	**		
***	FOR FCR	23 24			5. 6.		SE E SE E	1	TO TO		ABOVE ABOVE		V - V -	
** * *	FOR	25	TO		7,		SEE	1			ABOVE			
***	FCR	28	TO		0.		SEE		TO		ABOVE			
3 * * *	FOR	29	TO		1.		SEE	1			ABOVE			
***	FOR	30	TO		2.		SEE		TO	4	ABOVE	**	**	
***	FOR	31	TO		3.		SEE	1	TO		ABOVE			
***	FCR	32	TO	3	4.		SEE	2	TO		ABOVE			
	FOR	33	TO	3	5.		SEE	1	TO	3	ABOVE			
	FOR	34	TO		6.		SEE	2		4	ABOVE			
	FOR	35	TO		7.		SEE	1	TO		ABOVE			
- - - -	FCR	36	TO		8.		SEE				ABOVE			
	FCR	37	TO		9,		SEE	1	TO TO	3	ABOVE ABOVE			
~ * * *	FCR	39 41	TO TO		1. 3.		SEE SEE	1	TO	4	ABOVE			
***	FOR FOR	43	TO		5.		SEE	2	TO	4	ABOVE	**		
	FOR	44	TO		5• 6•		SEF	1		•	ABOVE			
	FCR		TO		9.		SEE		TO		ABOVE			
		7.		•	- •			_	• •	•				

PAT T ER	ų į	NCTES	RELATED	TO N	NOTES	TEST	LENGTH
*** ≠ F(F 48	TO 5	0• SE	E 1	TO 3	ABOVE ***	*
**** F(JR 50	TO 5	2. SE		TO 4	ABOVE ***	*
)R 52		-	E 1	TO 3	ABOVE ***	*
111 - F(E 2	TO 4	ABOVE ***	
**** F(E 1	TO 3	ABOVE ***	
**** F(E 2	TO 4	ABOVE ***	
	JR 56			E 1	70 3	ABOVE ***	
### F(E 2	TO 4	ABOVE ***	
444- F(E 1	TO 3	ABOVE ***	
*** F(E 2	TO 4	ABOVE ***	
**** F(EE 1	TO 3	ABOVE ***	
164	64	TO 6		99	TO 101	5	3
165	64	TO 6		128	TO 130	5	3
166	64	TC 6		171	TO 173	5	3
167	64	TO 6		209	TO 211	5	3
168 169	64	TO 6		219	TO 221 TO 182	5 5	3 3
170	65	TO 6'		180 208	TO 210	5	3
171	65 65	TO 6		218	TO 220	5	3
** - F(E 1	TO 3	ABOVE ***	_
	OR 67			E 2	TO 4	ABOVE ***	
- A - A	OR 68			E 1	TO 3	ABOVE ***	
	OR 70			E 2	TO 4	ABOVE ***	
	OR 71			E I	TO 3	ABOVE ***	
• •	DR 72		4. SE		TO 4	ABOVE ***	
	OR 73		5. SE		TO 3	ABOVE ***	
	OR 74			E 2	TO 4	ABOVE ***	*
	JR 75			E I	TO 3	ABOVE ***	*
**** F	3R 76		8. SE		TO 4	ABOVE ***	*
**** FI	CR 77		9• SE		TO 3	ABOVE ***	*
**** F(OR 78	TO 8	0 • SE	E 2	TO 4	ABOVE ***	*
*** F	JR 79	TO 8	1. SE	E 1	TO 3	ABOVE ***	*
FI FI	3R 80		2• SE	E 2	TO 4	ABOVE ***	
						ABOVE ***	
*** F						ABOVE ***	
	2R 83			E 1		ABOVE ***	
***				F 2	TO 4		
***	R 85			E 1	TO 3		
74 m				E 2		ABOVE ***	
12 - P			0. SE		TO 3		
	CR 89			E 2		ABOVE ***	
F				E 1	TO 3		
F				E 2	TO 4		
*** F(5. SE	E 1	TO 3	ABOVE ***	
172 F	3R 96 97			105		5	
473	97 97			181		5 5	3 3
174	57	TO 9		213		5	3
** 175	57	10 9		222		5	3
F(TO 10				ABOVE ***	
F					TO 3		

PATT	ERN	NCTE	S	RELATED TO	P	OTE	S	TES	т	LENGTH
****	FOR	102 TO	104.	SEE	2	TO	4	ABOVE	**:	**
***	FCR	103 TO	105.	SEE	97	TO	99	ABOVE	**	**
176	5	105 TO	107		127	TO	129	5		3
177	7	1C5 TO	107		170	TO	172	5		3
178	3	1C5 TO	107			TO	214	5		3
175		105 TO	107		220	TO	222	5		3
***	FOR	107 TO	109.	SEE	2	TO	4	ABOVE	**	
***	FOR	108 TO	110.	SEE	1	TO	3	ABOVE	**	
***	FOR	109 TD	111.	SEE	2	TO	4	ABOVE	**	
***	FOR	110 TO	112.	SEE	1	TO	3	ABOVE	***	
114 *	FOR	112 TO	114.	SEE	2	TO	4	ABOVE	***	
****	FOR	113 TO	115.	SEE	1	TO	3	ABOVE	***	
14 4 4	FOR	114 TO	116,	SEE	2	TO	4	ABOVE	**:	
***		115 TO	117.	SEE	1	TO	3	ABOVE		
1000		117 TO	119.	SEE	2	TO	4	ABOVE	***	
***	,	120 TO	122.	SEE	1 2	TO TO	3		**	
***	FOR	121 TO	123.	SEE See	1	TO	4	ABOVE	***	
**	FCR	123 TO	125.	SEE	2	TO	4	ABOVE	**	
**	FOR	124 TO 127 TO	120.	SEE	97	TO	99	ABOVE	**	
14 30 30	FOR FCR	127 TO 128 TO	130.	SEE	65	TO	67		**	
***	FOR	129 TO	131.	SEE	1	TO	3	ABOVE	**	
**	FOR	131 TO	133.	SEE	2	TO	4	ABOVE	***	
***	FOR	132 TO	134.	SEE	ī	TO	3		***	
191 -	FOR	135 TO	137.	SEE	2	TO	4	ABOVE	***	
***	FOR	136 TO	138.	SEE	ī	TO	3	ABOVE	**	
***	FOR	140 TO	142.	SEE	2	TO	4	ABOVE	***	
***	FOR	141 TO	143.	SEE	1	TO	3	ABOVE	***	**
141 🖚	FCR	143 TO	145.	SEE	2	TO	4	ABOVE	***	**
***	FCR	145 TO	147.	SEE	1	TO	3	ABOVE	**	**
***	FOR	146 TO	148.	SEE	2	70	4	ABOVE	**	**
***	FOR	147 TO	149.	SEE	1	TO	3	ABOVE	***	**
11 ===	FOR	149 TO	151.	SEE	2	TO	4	ABOVE	**	**
***	FCR	150 TO	152.	SEE	1	TO		ABOVE	**	
****	FOR	152 TO	154.	SEE	2	TO	4	ABOVE		
****	FOR	154 TO	156.	SEE	1	TO	3			
	FOR	155 TO	157.	SEE	2	TO	4			
***	FOR	156 TO	158.	SEE	1	TO	3		**	
	FOR	158 TO	160.	SEE	2	TO	4	ABOVE	***	
	FOR	159 TO	161.	SEE	1	TO	3	ABOVE	***	
-3	FCR	160 TO	162.	SEE	2	10	4	· · · · - · -	***	
- 4 -	FOR	161 TO	163.	SEE	1	TO	3		***	
	FOR	162 TO	164.	SEE	2	TO	4			
	FOR	163 TO	165.	SEE	1	TO	3	ABOVE	***	
	FOR	164 TO	166.	SEE	2	10		ABOVE	**	
~ ~ ~	FOR	166 TO	168.	SEE SEE	1 2	TO TO	3	ABOVE		
~ * *	FOR	167 TO 168 TO	169. 170.	SEE	1	TO	3	ABOVE		
	FOR FOR	168 TO 169 TO	170.	SEE	2	TO	4	ABOVE		
	FOR	170 TO	172.	SEE		TO		ABOVE		
***	FOR	171 TO	173.	SEE	65			ABOVE		
						_				

PATT	ERN	r	OTE	S	RELATED	TC	NOTE	S	TES	ST.	LENGTH
*** →	FGR	172	TO	174	• S	EF 1	10	3	ABOVE	**1	*
***	FCR	173	TO	175		EE 2		4	ABOVE	**4	**
***	FOR	174	TO	176		EE 1		3	ABOVE	***	**
***	FCR	175	TO	177		EE 2	TO	4	ABOVE	**1	r a k
***	FOR	177	TO	179	• S	EE 1	TO	3	ABOVE	***	ka k
***	FCR	178	TO	180	• S	EE 2	TO	4	ABOVE	**4	*
***	FCR	179	TO	181	• S	EF 1	TO	3	ABOVE	***	k 🋊
11 * *	FOR	180	TO	182	• S	EF 64	TO	66	ABOVE	**1	**
** **	FOR	181	TO	183		EE 105		107		***	
***	FOR	182	TO	184		EF 2		4	– – • –	***	
****	FOR	183	TO	185		EE 1	TO	3	ABOVE	***	
***	FCR	184	TO	186		EE 2		4	ABOVE	***	
***	FOR	187	TO	189		EE 1		3	ABOVE	***	
****	FOR	188	TO	190		EE 2		4	ABOVE	***	
	FOR	190	TO	192		EE 1		3	ABOVE	***	
****		191	TO	193		EE 2 EE 1	TO TO	4	ABOVE	**1	
***	FOR FCR	192 194	TO TO	194		EE 1 EE 2		3	ABOVE	**1	-
***	FOR	196	TC	196 198		EE 1	10	3	ABOVE	***	
1	FOR	197	TO	199		EE 2		4	ABOVE	***	
10 -	FOR	198	TO	200		EE 1		3	ABOVE	**1	
***	FCR	204	TO	206		EE 2		4	ABOVE	***	
**	FOR	205	TO	207		EE 1	TO	3	ABOVE	**1	
-	FOR	206	TO	208		EE 2		4	ABOVE	***	
170	FOR	207	TO	209		EE 1	TO	3	ABOVE	***	*
***	FOR	208	TO	210		EE 64		66	ABOVE	***	: *
***	FCR	209	TO	211		EE 65		67	ABOVE	***	: *
***	FCR	210	TO	212		EE 1	TO	3	ABOVE	***	*
***	FOR	211	TO	213		EE 2	TO	4	ABOVE	***	*
***	FOR	212	TO	214	• S	EE 97	TO	99	ABOVE	***	*
***	FOR	213	TO	215	• SI	EE 105	TO	107	ABOVE	**1	*
***	FOR	214	TO	216		EE 2		4	ABOVE	***	*
***	FOR	215	TO	217	-	EE 1		3	ABOVE	**4	r #
****	FOR	216		218		EF 2			ABOVE		
***	FOR	217		219			TO		ABOVE		
****	FOR	218	TO	220			10		ABOVE		
***	FOR	219	TO	221			TO		ABOVE		
***	FOR	220	TO	222			TO		ABOVE		
***	FOR	222		224			TO TO		ABOVE		
	FOR FOR	223 224	TO TO	225 ₀		EF 2 EE 1			ABOVE		
	FOR	225		227		EE 2			ABOVE		
	FOR	227		229		EE 1			ABOVE		
	FOR	228	TO	230		EE 2			ABOVE		
	FOR	230	TO	232		EF 1		3			
- 2	FCR	231	TO	233		FE 2		_	ABOVE		
	FCR		TO	235		EE 1			ABOVE		
	FOR		TO	236		EE 2			ABOVE		
***	FOR		TO	239		EE 1		3			
	FOR	238	TO	240		EE 2		4	ABOVE		
***	FOR	239	TO	241	• SI	EE 1	TO	3	ABOVE	**4	*



PAT T	ERN	NCT	ES P	RELATED TO	NOTES		TEST	LENG TH
***	FOR	242 TO	244.	SEF	2 TO	4 AI	BOVE *	***
***	FCR	243 TO	245.	SEE	1 TO	3 A	BOVE *	***
***	FOR	245 TO	247.	SEE	2 TO	4 A1	BOVE *	***
***	FCR	247 TO	249.	SEE	1 TO	3 AI	BOVE *	***
*** 🖚	FOR	248 TO	250.	SEE	2 TO	4 A	BOVE *	***
***	FCR	249 TO	251.	SEE	1 TO	3 A	30VE *	***
11+ 🖚	FOR	251 TO	253.	SEE	2 TO	4 A	BOVE *	***
11++	FOR	253 TO	255.	SEE	1 TO	3 A	BOVE *	***
***	FOR	254 TO	256.	SEE	2 10	4 A	BOVE *	***
***	FOR	255 TO	257.	SEF	1 10	3 A	30VE *	***
77 	FUR	299 10	2011	SEF	1 10	3 A	DUTE T	***

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -TCNAL RETROGRADE WAS BEGUN AT 165 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
180	1 TO	4	4 TO 7	5	4
181	1 TO	4	10 TO 13	5	4
182	1 TO	4	12 TO 15	5	4
183	1 TO	4	18 TO 21	5	4
184	1 TO	4	22 TO 25	5	4
185	1 TO	4	24 TO 27	5	4
186	1 10	4	28 TO 31	5	4
187	1 TO	4	30 TO 33 32 TO 35	5 5	4
188	1 TO 1 TO	4	32 TO 35 34 TO 37	5 5	4 4
189 190	1 TO	4	36 TO 39	5	4
190	1 10	4	43 TO 46	5	4
192	1 10	4	47 TO 50	5	4
193	1 70	4	53 TO 56	5	4
194	1 70	4	55 TO 58	5	4
195	1 10	4	58 TO 61	5	4
196	1 10	4	67 TO 70	5	4
197	i to	4	70 TO 73	5	4
158	i to	4	72 TO 75	5	4
199	1 TO	4	74 TO 77	5	4
200	1 TO	4	76 TO 79	5	4
2C1	1 TO	4	78 TO 81	5	4
202	1 TO	4	80 TO 83	5	4
203	1 TO	4	82 TO 85	5	4
204	1 TO	4	84 TO 87	5	4
205	1 TO	4	89 TO 92	5	4
206	1 10	4	92 TO 95	5	4
267	1 TO	4	107 TO 110	5	4
2 C8	1 TO	4	109 TO 112	5	4
209	1 TO	4	112 TO 115	5	4
21G	1 TO	4	114 TO 117	5	4
211	1 10	4	131 TO 134	5	4
212	1 TO	4	135 TO 138 140 TO 143	5 5	4
213	1 TO			5	4
214	1 TO	4		5	4
215 216	1 TO 1 TO	4	149 TO 152 155 TO 158	5	4
217	1 70	4	158 TO 161	5	4
218	1 TO	4	160 TO 163	5	4
218 219	1 TO	4	162 TO 165	5	4
220	1 70	4	167 TO 170	5	4
220 221	1 70	4	173 TO 176	5	4
222	i to	4	178 TO 181	5	4
223	1 TO	4	182 TO 185	5	4

PATTERN	NCTES		RELATED TO	ı	NOTE	S	TEST	LENGTH
224	1 TO	4		191		194	5	4
<i>2</i> 25	1 TO	4		197	TO	200	5	4
226	1 TO	4		204	TO	207	5	4
227	1 10	4			TO	209	5 5	4
228	1 TO	4		214 216	TO TO	217 219	5	4
229	1 TO 1 TO	4		223	TO	226	5	4
230 231	1 TO	4		238	TO	241	5	4
232	1 TO	4			TO	245	5	4
233	1 TO	4		248	TO	251	5	4
234	i to	4		254	TO	257	5	4
235	2 TO	5		5	TO	8	5	4
236	2 10	5		11	TO	14	5	4
237	2 TO	5		13	TO	16	5 5	4
238	2 TO	5		17	TO	20	5	4
239	2 TO	5		23	TO	26	5	4
240	2 TO	5			TO	32	5	4
241	2 TO	5		31	TO	34	5	4
242	2 TO	5		33	TO	36	5	4
243	2 TO	5		35	TO	38	5	4
244	2 10	5		52	TO	55	5	4
245 246	2 TO 2 TO	5 5		54 66	TO TO	57 69	5 5	4
247	2 TO	5		71	TO	74	5	4
241 248	2 10	5		73	TO	76	5	4
249	2 10	5		75	TO	78	5	4
250	2 TO	5		77	TO	80	5	4
751	2 10	5		79	TO	82	5	4
252	2 TO	5		81	TO	84	5	4
253	2 TO	5		83	TO	86	5	4
254	2 TO	5		85	TO	88	5	4
255	2 TO	5		88	TO	91	5	4
256	2 TO	5		101	TO	104	5	4
257	2 TO	5		108	TO	111	5	4
258	2 10	5			TO	116	5	4
259	2 TO	5		120	TO	123	5	4
260	2 TO 2 TO	5 5		123 145	TO TO	126 148	5 5	4
261	2 TO	5		154	TO	157	5	4
262 243	2 10	5		159	TO	162	5	4
263 264	2 TO	5		161	TO	164	5	4
265	2 10	5			TO	166	5	4
266	2 TO	5		166		169	5	4
267	2 TO	5		168		171	5	4
268	2 10	5		172		175	5	4
269	2 TO	5		174	TO	177	5	4
270	2 TO	5		177		180	5	4
271	2 TO	5		183	TO	186	5	4
272	2 TO	5			TO	190	5	4
273	2 TO	5		190		193	5	4
274	2 TO	5		196	10	199	5	4

PATTERN	NOTES		RELATED TO	•	NOTE	S	TEST	LENGTH
275	2 TO	5		205	TO	208	5	4
276	2 TO	5		210		213	5	4
277	2 TO	5			TO	218	5	4
278	2 TO	5		224		227	5	4
279	2 10	5			TO	230	5	4
280	2 TO	5		230	TO	233	5	4
281	2 TO	5		233	TO	236	5	4
282	2 TO 2 TO	5 5		237 247	TO TO	240 250	5 5	4
283 284	2 TO 2 TO	5			TO	256	5	4
**** FCR	3 TO	6.	SEF	1	to	230	ABOVE ***	*
**** FOR	4 TO	7.	SEE	2	TO	5	ABOVE ***	*
**** FOR	5 TO	8.	SEE	ī	TO	4	ABOVE ***	-
285	6 TO	9	-	9	TO	12	5	4
286	6 TO	9		21	TO	24	5	4
287	6 TO	9		27		30	5	4
288	6 TO	9		38	TO	41	5	4
289	6 TO	9		42	TO	45	5	4
<i>2</i> 90	6 TO	9		46	TO	49	5	4
291	6 TO	9		49	TO	52	5	4
292	6 TO	9		57	TO	60	5	4
29 3	6 TO	9		60	TO	63	5	4
294	6 10	9		69	TO	72	5	4
295	6 TO	9		91	TO	94	5	4
296 203	6 10	9		95	TO	98	5	4
257	6 TO	9			TO	109	5	4
29 8 200	6 TO	9			TO TO	114	5 5	4
299 300	6 TO 6 TO	9		116 130	TO	133	5	4
7 00 701	6 TO	9			TO	137	5	4
302	6 10	9		139	TO	142	5	4
303	6 10	9			TO	145	5	4
304	6 10	9		148	TO	151	5	4
305	6 TO	9		151	TO	154	5	4
306	6 TO	9		157	TO	160	5	4
367	6 TO	9		193	TO	196	5	4
3 C 8	6 TO	9			TO	206	5	4
309	6 TO	9		241		244	5	4
710	6 TO	9		244	TO	247	5	4
311	6 TO	9		250	TO	253	5	4
312		10		19	TO	22	5	4
313	7 10	10		25		28	2	*
314	7 TO	10		37		40	5	4
315		10		44	TO	44 47	5 5	4
316		10		48		51	5	4
317		10 10		56		59 21	5	4
218 319		10		59		62	5	4
319 320	7 TO	10		68		71	5	4
321		10			TO	93	5	4
322		10			TO	96	5	4
224					_		-	-

PATTERN	NCTES	RELATED TO NOTES	TEST	LENGTH
323	7 TO 10		113 5	4
324	7 70 10		118 5	4
325	7 10 10		132 5	4
?26 ?27	7 TO 10 7 TO 10		135 5 139 5	4
328	7 TO 10		144 5	4
329	7 TO 10		150 5	4
730	7 TO 10		153 5	4
331	7 TO 10		159 5	4
332	7 TO 10		195 5	4
333	7 TO 10		201 5	4
334	7 TO 10		242 5	4
335	7 70 10		246 5	4
336	7 70 10		252 5	4
337	7 10 10		258 5	4
738 339	8 TO 11 8 TO 11	16 TO 40 TO	19 5 43 5	4
340	8 TO 11 8 TO 11	51 TO	54 5	4
341	8 TO 11	62 TO	65 5	4
342	8 TO 11	87 TO	90 5	4
343	8 TO 11		103 5	4
344	8 TO 11		122 5	4
345	8 TO 11		25 5	4
346	8 TO 11		147 5	4
347	8 TO 11		156 5	4
348	8 70 11		168 5	4
349	8 70 11		179 5	4
750	8 70 11		189 5	4
351	8 TO 11 8 TO 11		192 5	4
35 <i>2</i> 353	8 TO 11 8 TO 11		198 5 229 5	4
354	8 TO 11		232 5	4
355	8 70 11		235 5	4
356	8 TO 11		239 5	4
357	8 TO 11		249 5	4
358	8 TO 11		255 5	4
359	9 TO 12	14 TO	17 5	4
360	9 10 12	39 TO	42 5	4
361	9 TO 12	50 TO	53 5	4
362	9 TO 12	61 TO	64 5	4
363	9 10 12	86 TO	89 5	4
364	9 TO 12		120 5 124 5	4
365 366	9 TO 12		27 5	4
367	9 10 12		46 5	4
368	9 to 12		55 5	4
369	9 TO 12		167 5	4
370	9 TO 12	175 TO 1	178 5	4
371	9 10 12		187 5	4
372	9 10 12		191 5	4
373	9 10 12	194 TO 1	197 5	4

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
374 375	9 TO 1 9 TO 1		225 TO 228 228 TO 231	5 5	4
	9 10 1		231 TO 234	5	4
376 377	9 10 1		234 TO 237	5	4
318	9 TO 1		245 TO 248	5	4
319	9 TO 1.		251 TO 254	5	4
**** FCR		3. SEE		ABOVE ***	**
**** FOR		4. SEE	1 TO 4	ABOVE **	**
**** FCR	12 TO 1	5. SEE	2 TO 5	ABOVE ***	**
**** FOR	13 TO 1	6. SEE	1 TO 4	ABOVE **	*
**** FGR		7. SEE		ABOVE ***	
**** FCR		9. SEE	7 TO 10		
**** FCR		SEE		ABOVE ***	
**** FOR		1. SEF		ABOVE ***	
**** FOR		2. SEE		ABOVE ***	
**** FOR **** FOR		4. SEE 5. SEE		ABOVE ***	
**** FOR **** FOR		5• SEF 6• SEE		ABOVE ***	
**** FOR		7. SEE		ABOVE **	
**** FOR		B. SEE	8 TO 11		
**** FOR		SEE		ABOVE ***	
**** FOR		i. SEE		ABOVE ***	**
**** FCR		2. SEF		ABOVE ***	**
**** FCR	-	3. SEE		ABOVE ***	**
**** FOR	31 TO 3	4. SEE		ABOVE ***	**
**** FGR	32 TO 3	5. SEE	2 TO 5	ABOVE ***	* *
**** FOR	33 TO 3	6. SEE	1 TO 4		**
**** FCR		7. SEE		ABOVE ***	
**** FOR		B. SEE		ABOVE ***	
**** FOR		9. SEE		ABOVE ***	
**** FOR		O. SEF	8 TO 11	ABOVE ***	
**** FOR	-	1. SEF		ABOVE ***	
**** FOR ***	-	2, SEE 3, SEE		ABOVE ***	
**** FOR		4. SEE	8 TO 11		
**** FOR		SEE		ABOVE ***	
**** FOR		SEE		ABOVE ***	
**** FGR		7. SEE	8 TO 11		**
**** FOR		9. SEE		ABOVE ***	*
**** FCR		O. SEE		ABOVE ***	k i
**** FOR	48 TO 5	1. SEE	8 TO 11		**
**** FOR	49 TO 5	2. SEE		ABOVE ***	**
**** FOR	50 TO 5	3∙ SEE		ABOVE ***	**
**** FOR		SEE		ABOVE ***	
**** FOR		SEE	1 TO 4		
**** FCR		6. SEE		ABOVE ***	
**** FOR		7. SEE	1 TO 4		
**** FOR		8. SEE		~5512	
**** FGR		9. SEE	8 TO 11 9 TO 12		
**** FCR		O• SEE		ABOVE ***	
*** FOR	58 TO 6	1. SEE	2 10 7	MOUVE TT	- -

PATTERN	NCTES	RE	LATED TO	N	IOTE	S	TEST	LENG TH
**** FOR	59 TO	62.	SEE	8	TO		ABOVE ***	
**** FOR	60 TO	63.	SEE	9	10		ABOVE ***	
#### FOR	61 TO	64.	SEE	6 7	TO TO	9 10	ABOVE ***	
#### FNR 380	62 TO 63 TO	65• 66	SEE	128	TO	131	5	4
381	63 TO	66			TO	174	5	4
382	63 TO	66		209	TO	212	5	4
383	64 TO	67			TO	211	5	4
384	64 TO	67			TO	221	5	4
385	65 TO	68		179	TO	182	5	4
386	65 TO	68		207	TO	210	5	4
387	65 TO	68			TO	220	5	4
**** FCR	66 TO	69.	SEF	1	TO	4	ABOVE ***	
**** FOR	67 TO	70•	SEF	2	TO		ABOVE ***	
**** FCR	68 TO	71.	SEE	8	TO	11	ABOVE ***	
**** FOR	69 TO	72•	SEE	9	TO		ABOVE ***	
**** FCR	70 TO	73.	SEF		TO		ABOVE ***	
**** FCR **** FOR	71 TO 72 TO	74. 75.	SEE SEE	1 2	TO TO	4	ABOVE ***	-
**** FOR	72 TO	76.	SEF	1	TO		ABOVE ***	
**** FOR	74 TO	77.	SEE	-	TO		ABOVE ***	
**** FOR	75 10	78.	SEE	i	TO		ABOVE ***	
**** FOR	76 TO	79.	SEE		TO	_	ABOVE ***	
**** FOR	77 TO	80.	SEE	1	TO		ABOVE ***	*
**** FOR	78 TO	81.	SEE	2	TO	5	ABOVE ***	
**** FCR	79 TO	82.	SEE	1	TO	4	ABOVE ***	*
**** FCR	80 TO	83•	SEE	2	TO	5	ABOVE ***	*
**** FCR	81 TO	84.	SEE	1	TO	4	ABOVE ***	
**** FCR	82 TO	85.	SEE	2	TO		ABOVE ***	
**** FOR	83 TO	86.	SEE	1	TO		ABOVE ***	
#### FOR	84 TO	87.	SEF		TO		AROVE ***	
**** FCR **** FOR	85 TO 86 TO	88, 89,	SFE SEE	1 6	TO TO		ABOVE ***	
**** FOR	86 TO 87 TO	90.	SEE	7	TO		ABOVE ***	
**** FOR	88 TO	91.	SEE	i	to		ABOVE ***	
**** FOR	89 TO	92.	SFE	2	TO		ABOVE ***	*
**** FOR	90 TO	93,	SEE	8	TO	11	ABOVE ***	*
**** FGR	91 TO	94.	SEE	9	TO		ABOVE ***	*
**** FOR	92 TO	95.	SEE	2	TO	5	ABOVE ***	*
**** FOR	93 TO	96.	SEE	8	TO	11	ABOVE ***	*
**** FOR	95 TO	98.	SEE	9	TO	12	ABOVE ***	*
388	96 TO	99		181	TO	184	5	4
389	96 TO	99		213		216	-	4
390	56 TO	99		222		225	5	4
391 303	57 TO 57 TO	100		104 221		107 224	5 5	4
392 **** FOR	97 TO 100 TO	100 103.	SEE		TO		ABOVE **4	•
**** FOR	101 TO	104.	SEE		TO	_	ABOVE ***	
**** FOR	102 TO	105.	SEE	96			ABOVE ***	
**** FOR	103 TG	106.	SEE	57			ABOVE ***	
393	104 TO	107		220		223	5	4

394 105 TO 108 126 TO 129 5 **** FOR 106 TO 109. SEE 9 TO 12 ABOVE **** **** FOR 107 TO 110. SEF 2 TO 5 ABOVE **** **** FOR 108 TO 111. SEF 1 TO 4 ABOVE **** **** FOR 109 TO 112. SEE 2 TO 5 ABOVE **** **** FOR 110 TO 113. SEF 8 TO 11 ABOVE **** **** FOR 111 TO 114. SEE 9 TO 12 ABOVE **** **** FOR 112 TO 115. SEE 2 TO 5 ABOVE **** **** FOR 112 TO 115. SEE 2 TO 5 ABOVE **** **** FOR 112 TO 115. SEE 2 TO 5 ABOVE **** **** FOR 114 TO 117. SEE 2 TO 5 ABOVE **** **** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 116 TO 119. SFE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 120 TO 123. SEE 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 126. SEE 1 TO 4 ABOVE **** **** FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	GTH
#### FOR 107 TO 110. SEF 2 TO 5 ABOVE **** #### FOR 108 TO 111. SEF 1 TO 4 ABOVE **** #### FOR 109 TO 112. SEE 2 TO 5 ABOVE **** #### FOR 110 TO 113. SEF 8 TO 11 ABOVE **** #### FOR 111 TO 114. SEE 9 TO 12 ABOVE **** #### FOR 112 TO 115. SEE 2 TO 5 ABOVE **** #### FOR 113 TO 116. SEE 1 TO 4 ABOVE **** #### FOR 114 TO 117. SEE 2 TO 5 ABOVE **** #### FOR 115 TO 118. SEE 8 TO 11 ABOVE **** #### FOR 115 TO 118. SEE 8 TO 11 ABOVE **** #### FOR 116 TO 119. SFE 9 TO 12 ABOVE **** #### FOR 117 TO 120. SEE 6 TO 9 ABOVE **** #### FOR 121 TO 123. SEE 1 TO 4 ABOVE **** #### FOR 122 TO 123. SEE 1 TO 4 ABOVE **** #### FOR 122 TO 123. SEE 1 TO 4 ABOVE **** #### FOR 122 TO 125. SEE 7 TO 10 ABOVE **** ##### FOR 122 TO 125. SEE 7 TO 10 ABOVE **** ##### FOR 122 TO 125. SEE 7 TO 10 ABOVE ****	4
#### FOR 108 TO 111. SEE 1 TO 4 ABOVE #### #### FCR 109 TO 112. SEE 2 TO 5 ABOVE #### #### FCR 110 TO 113. SEE 8 TO 11 ABOVE #### #### FOR 111 TO 114. SEE 9 TO 12 ABOVE #### #### FOR 112 TO 115. SEE 2 TO 5 ABOVE #### #### FOR 113 TO 116. SEE 1 TO 4 ABOVE #### #### FOR 114 TO 117. SEE 2 TO 5 ABOVE #### #### FOR 115 TO 118. SEE 8 TO 11 ABOVE #### #### FOR 115 TO 118. SEE 8 TO 11 ABOVE #### #### FOR 116 TO 119. SFE 9 TO 12 ABOVE #### #### FOR 117 TO 120. SEE 6 TO 9 ABOVE #### #### FOR 120 TO 123. SEE 1 TO 4 ABOVE #### #### FOR 121 TO 124. SEE 6 TO 9 ABOVE #### #### FOR 122 TO 125. SEE 7 TO 10 ABOVE #### #### FOR 122 TO 125. SEE 7 TO 10 ABOVE #### ################################	
**** FCR 1C9 TO 112. SEE 2 TO 5 ABOVE **** **** FCR 110 TO 113. SEF 8 TO 11 ABOVE **** **** FOR 111 TO 114. SEE 9 TO 12 ABOVE **** **** FOR 112 TO 115. SEE 2 TO 5 ABOVE **** **** FOR 113 TO 116. SEE 1 TO 4 ABOVE **** **** FOR 114 TO 117. SEE 2 TO 5 ABOVE **** **** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 116 TO 119. SFE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 120 TO 123. SEE 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE ****	
**** FCR 110 TO 113. SEF 8 TO 11 ABOVE **** **** FOR 111 TO 114. SEE 9 TO 12 ABOVE **** **** FOR 112 TO 115. SEE 2 TO 5 ABOVE **** **** FOR 113 TO 116. SEE 1 TO 4 ABOVE **** **** FOR 114 TO 117. SEE 2 TO 5 ABOVE **** **** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 116 TO 119. SEE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 119 TO 122. SEE 7 TO 10 ABOVE **** **** FOR 121 TO 123. SEE 1 TO 4 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE ****	
#### FOR 111 TO 114. SEE 9 TO 12 ABOVE **** #### FOR 112 TO 115. SEE 2 TO 5 ABOVE **** #### FOR 113 TO 116. SEE 1 TO 4 ABOVE **** #### FOR 114 TO 117. SEE 2 TO 5 ABOVE **** #### FOR 115 TO 118. SEE 8 TO 11 ABOVE **** #### FOR 116 TO 119. SFE 9 TO 12 ABOVE **** #### FOR 117 TO 120. SEE 6 TO 9 ABOVE **** #### FOR 119 TO 122. SEE 7 TO 10 ABOVE **** #### FOR 120 TO 123. SEE 1 TO 4 ABOVE **** #### FOR 121 TO 124. SEE 6 TO 9 ABOVE **** #### FOR 122 TO 125. SEE 7 TO 10 ABOVE **** #### FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	
#### FOR 112 TO 115. SEE 2 TO 5 ABOVE **** #### FOR 113 TO 116. SEE 1 TO 4 ABOVE **** #### FOR 114 TO 117. SEE 2 TO 5 ABOVE **** #### FOR 115 TO 118. SEE 8 TO 11 ABOVE **** #### FOR 116 TO 119. SFE 9 TO 12 ABOVE **** #### FOR 117 TO 120. SEE 6 TO 9 ABOVE **** #### FOR 119 TO 122. SEE 7 TO 10 ABOVE **** #### FOR 120 TO 123. SEE 1 TO 4 ABOVE **** #### FOR 121 TO 124. SEE 6 TO 9 ABOVE **** #### FOR 122 TO 125. SEE 7 TO 10 ABOVE **** #### FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FGR 113 TO 116. SEE 1 TO 4 ABOVE **** **** FOR 114 TO 117. SEE 2 TO 5 ABOVE **** **** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 116 TO 119. SFE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 119 TO 122. SEE 7 TO 10 ABOVE **** **** FOR 120 TO 123. SEE 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	
#### FOR 114 TO 117. SEE 2 TO 5 ABOVE #### #### FOR 115 TO 118. SEE 8 TO 11 ABOVE #### #### FOR 116 TO 119. SFE 9 TO 12 ABOVE #### #### FOR 117 TO 120. SEE 6 TO 9 ABOVE #### #### FOR 119 TO 122. SEE 7 TO 10 ABOVE #### #### FOR 120 TO 123. SEF 1 TO 4 ABOVE #### #### FOR 121 TO 124. SEE 6 TO 9 ABOVE #### #### FOR 122 TO 125. SEE 7 TO 10 ABOVE #### #### FOR 122 TO 125. SEE 7 TO 10 ABOVE #### #### FOR 123 TO 126. SEE 1 TO 4 ABOVE ####	
**** FOR 115 TO 118. SEE 8 TO 11 ABOVE **** **** FOR 116 TO 119. SFE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 119 TO 122. SEE 7 TO 10 ABOVE **** **** FOR 120 TO 123. SEF 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FOR 116 TO 119. SFE 9 TO 12 ABOVE **** **** FOR 117 TO 120. SEE 6 TO 9 ABOVE **** **** FOR 119 TO 122. SEE 7 TO 10 ABOVE **** **** FOR 120 TO 123. SEE 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FOR 123 TO 126. SEE 1 TO 4 ABOVE ****	
#### FCR 117 TG 120. SEE 6 TO 9 ABOVE #### #### FOR 119 TO 122. SEE 7 TO 10 ABOVE #### #### FOR 120 TO 123. SEF 1 TO 4 ABOVE #### #### FOR 121 TO 124. SEE 6 TO 9 ABOVE #### #### FOR 122 TO 125. SEE 7 TO 10 ABOVE #### #### FCR 123 TO 126. SEE 1 TO 4 ABOVE ####	
**** FOR 119 TO 122. SEE 7 TO 10 ABOVE **** **** FOR 120 TO 123. SEF 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEF 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEF 7 TO 10 ABOVE **** **** FOR 123 TO 126. SEF 1 TO 4 ABOVE ****	
**** FOR 120 TO 123. SEF 1 TO 4 ABOVE **** **** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FCR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FOR 121 TO 124. SEE 6 TO 9 ABOVE **** **** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FCR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FOR 122 TO 125. SEE 7 TO 10 ABOVE **** **** FCR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FCR 123 TO 126. SEE 1 TO 4 ABOVE ****	
**** FOR 124 TO 127, SEE 6 TO 9 ABOVE ****	
395 127 TO 130 180 TO 183 5	4
**** FOR 128 TO 131. SEE 65 TO 68 ABOVE ****	
**** FOR 129 TO 132, SEE 8 TO 11 ABOVE ****	
*** FCR 130 TO 133. SEE 9 TO 12 ABOVE ****	
**** FCR 131 TO 134. SEE 2 TO 5 ABOVE ****	
**** FOR 132 TO 135. SEE 8 TO 11 ABOVE ****	
**** FOR 134 TO 137. SEF 9 TO 12 ABOVE ****	
*** FCR 135 TO 138. SEE 2 TO 5 ABOVE ****	
**** FOR 136 TO 139. SEE 8 TO 11 ABOVE ****	
**** FCR 139 TO 142, SEE 9 TO 12 ABOVE ****	
**** FOR 140 TO 143. SEE 2 TO 5 ABOVE ****	
*** FOR 141 TO 144. SEE 8 TO 11 ABOVE ***	
**** FCR 142 TO 145. SEF 9 TO 12 ABOVE ****	
**** FOR 143 TO 146. SEE 6 TO 9 ABOVE ****	
**** FOR 144 TO 147. SEE 7 TO 10 ABOVE ****	
**** FOR 145 TO 148. SEE 1 TO 4 ABOVE ****	
**** FOR 146 TO 149. SEE 2 TO 5 ABOVE ****	
**** FCR 147 TO 150. SEE 8 TO 11 ABOVE **** **** FOR 148 TO 151. SEE 9 TO 12 ABOVE ****	
**** FCR 150 TO 153. SEE 8 TO 11 ABOVE **** **** FOR 151 TO 154. SEE 9 TO 12 ABOVE ****	
**** FOR 152 TO 155. SEF 6 TO 9 ABOVE ****	
**** FOR 153 TO 156. SEE 7 TO 10 ABOVE ****	
**** FGR 154 TO 157. SEE 1 TO 4 ABOVE ****	
**** FOR 155 TO 158. SEE 2 TO 5 ABOVE ****	
**** FCR 156 TO 159. SFE 8 TO 11 ABOVE ****	
**** FOR 157 TO 160. SEE 9 TO 12 ABOVE ****	
**** FGR 158 TO 161. SEE 2 TO 5 ABOVE ****	
**** FOR 159 TO 162. SEE 1 TO 4 ABOVE ****	
**** FCR 160 TO 163. SEE 2 TO 5 ABOVE ****	
**** FOR 161 TO 164. SEE 1 TO 4 ABOVE ****	

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	162 TO 165		_	ABOVE ****
**** FOR	163 TO 166		1 TO 4	ABOVE ***
**** FCP	164 TO 167		6 TO 9	ABOVE ***
**** FOR	165 TO 168			ABOVE ****
**** FOR	166 TO 169		1 10 4	ABOVE ****
**** FGR	167 TO 170		2 10 5	
**** FOR	168 TO 171		1 TO 4	70012
**** FOR	169 TO 172		96 TO 99 127 TO 130	ACC TE
**** FOR	170 TO 173	-	65 TO 68	
**** FOR	172 TO 175			ABOVE ****
**** FOR	173 TO 176		2 10 5	ABOVE ****
**** FOR	174 70 177		1 10 4	ABOVE ****
**** FOR	175 TO 178			ABOVE ****
**** FOR	176 TO 179		7 TO 10	
**** FOR	177 TO 180		1 TO 4	ABOVE ***
**** FCR	178 TO 181		2 TO 5	ABOVE ***
**** FOR	179 TO 182		63 TO 66	ABOVE ***
396	181 70 184		211 TO 214	5 4
**** FOR	182 TO 185	• SEE	2 TO 5	ABOVE ****
**** FOR	183 TO 186	• SEE	1 TO 4	ABOVE ***
**** FOR	184 TO 187	• SEE	6 TO 9	
**** FOR	186 TO 189	SEE		ABOVE ***
**** FOR	187 TO 190	• SEE	1 TO 4	ABOVE ****
**** FOR	188 TO 191		6 TO 9	ABOVE ***
**** FOR	189 TO 192		7 TO 10	
**** FOR	190 TO 193		1 TO 4	ABOVE ****
**** FCR	191 TO 194		2 TO 5	ABOVE ****
**** FCR	192 TO 195		8 TO 11	ABOVE ****
**** FCR	193 TO 196			ABOVE ****
**** FOR	194 TO 197		6 TO 9	ABOVE ****
**** FOR	195 TO 198		1 TO 4	ABOVE ****
**** FOR	190 TO 199		2 10 5	ABOVE ****
**** FOR	198 TO 201		8 TO 11	ABGVE ****
**** FOR	203 TO 206			ABOVE ****
**** FOR	204 TO 207		2 10 5	ABOVE ****
**** FOR	205 TO 208		1 TO 4	ABOVE ****
**** FOR	206 TO 209		2 TO 5	ABOVE ****
**** FOR	207 TO 210		63 TO 66	AROVE ***
**** FOR	208 TO 211		64 TO 67	ABOVE ****
**** FOR	209 TO 212	SEE	65 TO 68	ABOVE ****
**** FOR	210 TO 213	• SFE	1 TO 4	ABOVE ****
**** FOR	211 TO 214			ABOVE ****
**** FOR	213 TO 216			ABOVE ****
**** FCR	214 TO 217	•		ABOVE ****
**** FOR	215 TO 218			ABOVE ****
**** FOR	216 TO 219	-		ABOVE ****
**** FOR	217 TO 220			ABOVE ****
**** FCR	218 TO 221			ABOVE ****
**** FOR	220 TO 223	• SEE	97 TO 100	MDUVE TTTT

PATTE	RN	P	VCTES	;	RELATED TO	P	IOTE	S	TES	ST	LENGTH
****	FOR	221	TO	224.	SEE	104	TO	107	ABOVE	***	*
****	FOR	222	TO	225.	SEE	181	TO	184	ABOVE	***	*
****	FOR	223	TO	226.	SEF	2	TO	5	ABOVE	***	*
****	FCP	224	TO	227.	SEE	1	TO	4	ABOVE	***	*
****	FOR	225	TO	228.	SEE	6	TO	9	ABOVE	***	*
****	FCR	226	TO	229.	SEF	7	TO	10	ABOVE	***	*
****	FOR	227	TO	230.	SEE	1	TO	4	ABOVE	***	*
****	FOR	228	TO	231.	SEE	E	TO	9	ABOVE	***	*
****	FCR	229	TO	232.	SEE	7	TO	10	ABOVE	***	*
****	FOR	230	TO	233.	SEE	1	TO	4	ABOVE	***	*
****	FCR	231	TO	234.	SEE	6	TO	9	ABOVE	***	*
****	FOR	232	TO	235.	SEE	7	TO	10	ABOVE	***	*
****	FOR	233	TO	236.	SEE	1	TO	4	ABOVE	***	*
****	FOR	234	TO	237.	SEE	6	TO	9	ABOVE	***	*
****	FOR	236	TO	239.	SEE	7	TO	10	ABOVE	***	*
****	FOR	237	TO	240.	SEE	1	TO	4	ABOVE	***	*
****	FCR	238	TO	241.	SEF	2	TO	5	ABOVE	***	*
****	FOR	239	TG	242.	SEE	8	TO	11	ABOVE	***	*
****	FOR	241	TO	244.	SEE	9	TO	12	ABOVE	***	*
****	FCR	242	TO	245.	SEE	2	TO	5	ABOVE	***	*
****	FCR	243	TO	246.	SEE	8	TO	11	ABOVE	***	*
****	FOR	244	TO	247.	SEE	9	TO	12	ABOVE	***	*
****	FCR	245	TO	248.	SEF	6	TO	9	ABOVE	***	*
****	FOR	246	TO	249.	SEE	7	TO	10	ABOVE	***	*
****	FOR	247	TO	250.	SEE	1	TO	4	ABOVE	***	*
****	FOR	248	TO	251.	SEE	2	TO	5	ABOVE	***	*
****	FCR	249	TO	252.	SEE	8	TO	11	A BOVE	***	*
****	FCR	250	TO	253.	SEE	9	TO	12	ABOVE	***	*
****	FCR	251	TO	254.	SEE	6	TO	9	ABOVE	***	*
****	FCR	252	TO	255.	SEE	7	TO	10	ABOVE	***	*
****	FOR	253	TO	256,	SEE	1	TO	4	ABOVE	***	*
****	FCR	254	TO	257.	SEE	2	TO	5	ABOVE	***	*
****	FOR	255	TO	258.	SEE	8	TO	11	ABOVE	***	*

SFARCH FOR PATTERNS OF 5 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 326 SECONDS INTO EXECUTION.

PA TERN	NOTES	6	RELATED TC	٨	NOTE	S	TEST	LENG TH
441	2 T O	6			TO	78	5	5
442	2 TO	6		76	TO	80	5	5
443	2 10	6		78	TO	82	5	5
~ 44 ~ 45	2 TO 2 TO	6 6		80 82	TO TO	84 86	5 5	5 5
44 6	2 TO	6		84	TO	88	5	5
447	2 TO	6		107	TO	111	5	5
448	2 TO	6		112	TO	116	5	5
449	2 TO	6		158	TO	162	5	5
450	2 TO	6		160	TO	164	5	5
45 1	2 TO	6		162	TO	166	5	5
45 <i>2</i>	2 TO	6		167	TO	171	5	5
45 3	2 TO	6		173	TO	177	5	5
454	2 10	6		182	TO	186	5	5
45 5	2 10	6		204	TO	208	5 5	5 5
456 457	2 TO 2 TO	6 6		214	TO TO	218 227	5 5	5 5
**** FCR	3 TO	7,	SEE	1	TO	5	ABOVE *	-
**** FOR	4 10	8.	SEE	2	TO	6	ABOVE *	
458	5 TO	9	5 LL	9	TO	13	5	5
459	5 TO	9		21	TO	25	5	5
460	5 TO	9		27	TO	31	5	5
461	5 TO	9		42	TO	46	5	5
462	5 TO	9		46	TO	50	5	5
463	5 TO	9		57	TO	61	5	5
464	5 TO	9		69	TO	73	5	5
465 466	5 10	9		91	TO TO	95	5 5	5
467	5 TO 5 TO	9		106	TO	110 115	5	5 5
468	5 TO	9		130	TO	134	5	5
469	5 TO	9		134	TO	138	5	ś
470	5 10	ģ		139	TO	143	5	5
471	5 TO	9		148	TO	152	5	5
472	5 TO	9		157	TO	161	5	5
473	5 TO	9			TO	207	5	5
474	5 TO	9		241	TO	245	5	5
475 476	6 10	10		37	TO	41	5 5	5
477	6 TO 6 TO	10 10		41	TO TO	45 52	5	5 5
478	6 TO 6 TO	10		56	to	60	5	5
479	6 TO	10		59	TO	63	5	5
480	6 10	10		68	TO	72	5	5
481	6 10	10		90	TO	94	5	5
482	6 10	10		110	TO	114	5	5
48 3	6 TO	10		115	TO	119	5	5
484	6 TO	10		129	TO	133	5	5
48 5	6 TO	10		141	TO	145	5	5
486	6 TO	10		147	TO	151	5	5
487 488	6 TO	10		150	TO	154	5	5
489	6 TO	10		156	TO	160	5 5	5 5
. 3 7	6 TO	10		192	10	196	2	7

PATTERN	NCTES	RELATED TC	NOTES	TEST LENGTH
490 491	6 TO 10		243 TO 247 249 TO 253	5 5 5 5
**** FGR		SEE	6 TO 10	ABOVE ***
492	7 TO 1		40 TO 44	5 5
493	8 TO 12		39 TO 43	5 5
494	8 TO 12		50 TO 54	5 5
495	8 TO 12		61 TO 65	5 5
496	8 TO 12	2	86 TO 90	5 5
497	8 TO 12		121 TO 125	5 5
498	8 TO 12		143 TO 147	5 5
499	8 TO 12		152 TO 156	5 5
500	8 TO 12		164 TO 168	5 5
501	8 TO 12		175 TO 179	5 5
502	8 TO 12		188 TO 192	5 5
503	8 TO 12		194 TO 198	5 5
504 505	8 TO 12 8 TO 12		225 TO 229 228 TO 232	5 5 5 5
506	8 TO 12		231 TO 235	5 5
507	8 TO 12		245 TO 249	5 5
508	8 TO 12		251 TO 255	5 5
**** FOR	8 TO 12		8 TO 12	ABOVE ****
509	9 TO 13		13 TO 17	5 5
510	9 10 13		85 TO 89	5 5
511	9 TO 13		120 TO 124	5 5
512	9 TO 13		123 TO 127	5 5
513	9 TO 13		163 TO 167	5 5
514	9 TO 13		174 TO 178	5 5
515	9 TO 13		183 TO 187	5 5
516	9 70 13		187 TO 191	5 5
517	9 TO 13		224 TO 228	5 5
518 510	9 TO 13		227 TO 231	5 5
519 520	9 TO 13		230 TO 234 233 TO 237	5 5 5 5
**** FOR	10 TO 14		2 TO 6	ABOVE ****
**** FCR	11 TO 15		1 10 5	ABOVE ****
**** FCR	12 TO 16		2 70 6	ABOVE ****
**** FOR	13 TO 17		5 TO 9	ABOVE ****
521	14 TO 18	}	20 TO 24	5 5
522	14 TO 18	}	26 TO 30	5 5
523	14 TO 18		45 TO 49	5 5
524	14 TO 18		94 TO 98	5 5
525	14 TO 18		133 TO 137	5 5
526 627	14 TO 18		138 TO 142	5 5
527 528	14 TO 18		202 TO 206	5 5
529	14 TO 18		240 TO 244 19 TO 23	5 5 5 5
530	15 70 19		25 TO 29	5 5
531	15 TO 19		44 TO 48	5 5
532	15 TO 19		93 TO 97	5 5
533	15 TO 19		132 TO 136	5 5
534	15 TO 19		136 TO 140	5 5



PATTERN	NCTES	RELATED	ro notes	TEST LENGTH
535	15 TO 15 TO	19 19	198 TO 202 239 TO 243	5 5 5 5
536 537	15 TO	19	255 TO 259	5 5
**** FOR	15 TO	19. SEI	_	
538	16 TO	20	24 TO 28	5 5
539	16 TO	20	36 TO 40	
540	16 TO	20	43 TO 47	
541	16 TO	20	47 TO 51	5 5
542	16 TO	20	55 TO 59	5 5
543	16 TO	20	58 TO 62	5 5
544	16 TO	20	67 TO 71	5 5
545	16 TO	20	89 TO 93	5 5
546	16 TO	20	92 TO 96	5 5
547	16 TO	20	109 TO 113	5 5
548	16 TO	20	114 TO 118	5 5
549	16 10	20	131 TO 135	5 5
550	16 TO	20	135 TO 139	5 5
551	16 TO	20	140 TO 144	5 5
552	16 TO	20	146 TO 150	5 5
553	16 TO	20	149 TO 153	5 5
554	16 TO	20	155 TO 159	5 5
555 554	16 TO	20	191 TO 195 197 TO 201	5 5 5 5
556	16 TO	20	197 TO 201 238 TO 242	5 5
557 559	16 TO 16 TO	20	242 TO 246	5 5
558 559	16 70	20 20	248 TO 252	5 5
560	16 TO	20	254 TO 258	5 5
**** FOR	17 TO	21. SE		ABOVE ****
561	18 TO	22	51 TO 55	5 5
562	18 TO	22	87 TO 91	5 5
563	18 TO	22	100 TO 104	5 5
564	18 TO	22	119 TO 123	5 5
565	18 70	22	122 TO 126	
566	18 TO	22	144 TO 148	
567	18 TO	22	153 TO 157	5 5
568	18 TO	22	165 TO 169	
569	18 TO	22	176 TO 180	5 5
570	18 TO	22	186 TO 190	
571	18 TO	22	189 TO 193	
572	18 TO	22	195 TO 199	5 5
573	18 TO	22	226 TO 230	
574	18 TO	22	229 TO 233	
575	18 TO	22	232 TO 236	5 5
576 577	18 TO	22	236 TO 240 246 TO 250	
577 579	18 TO 18 TO	22 22	246 TO 250 252 TO 256	
578 579	18 TO	23	118 TO 122	
580	19 TO	23	185 TO 189	
581	19 10	23 23	235 TO 239	
582	20 TO	24	117 TO 121	
583	20 TO	24	124 TO 128	
<i>-</i> • •		- -		

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
584 585	20 TO 24 20 TO 24		184 TO 188 234 TO 238		5 5
707 **** FOR	20 TO 24	• SEE	20 TO 24	_	_
**** FCR	21 TO 25		9 TO 13		
**** FGR	22 TO 26		2 TO 6		*
**** FOR	24 TO 28		18 TO 22		*
**** FOR	25 TO 29		19 TO 23	ABOVE ***	*
**** FOR	26 TO 30		20 TO 24	ABOVE ***	*
**** FOR	27 TO 31		9 TO 13	ABOVE ***	*
**** FOR	35 TO 39	• SEE	1 TO 5		*
**** FOR	36 TO 40	• SEE	18 TO 22		*
**** FOR	37 TO 41	• SEE	8 TO 12		•
586	38 TO 42		49 TO 53		5
587	38 TO 42		60 TO 64		5
588	38 TO 42		116 TO 120		5
589	38 TO 42		142 TO 146		5
590	38 TO 42		151 TO 155		5
591	38 TO 42		193 TO 197		5
592	38 TO 42		244 TO 248	5	5 5
593	38 TO 42	655	250 TO 254	5	_
**** FOR	39 TO 43		6 TO 10	ABOVE ***	
**** FOR	40 TO 44		7 TO 11	ABOVE ***	-
**** FCR	41 TO 45		8 TO 12 9 TO 13	ABOVE ***	
**** FOR	42 TO 46		18 TO 22	ABOVE ***	
**** FOR **** FCP	43 TO 47 44 TO 48		19 TO 23		=
**** FGR	45 TO 49		20 TO 24		
**** FCR	46 TO 50		9 TO 13		_
**** FOR	47 TO 51		18 TO 22	ABOVE ***	
**** FCR	48 TO 52		8 TO 12		
**** FOR	49 TO 53		38 TO 42		
**** FOR	50 TO 54		6 TO 10		*
**** FCR	51 TO 55		16 TO 20		* .
**** FOR	52 TO 56			ABOVE ***	*
**** FOR	54 TO 58		1 TO 5	ABOVE ***	*
**** FOR	55 TO 59	• SEE	18 TO 22	ABOVE ***	*
**** FOR	56 TO 60	• SEE	8 TO 12	ABOVE ***	*
**** FCR	57 TO 61		9 TO 13		
**** FOR	58 TO 62			ABOVE ***	
**** FOR	59 TO 63		8 TO 12		-
**** FOR	60 TO 64		38 TO 42		
**** FOR	61 TO 65	• SEE	6 TO 10		
594	62 TO 66		128 TO 132		5
555	63 TO 67		208 TO 212		5
**** FOR	63 TO 67	• SEE	63 TO 67		
596 563	64 10 68		207 TO 211	5	5 5
5 5 7	64 TO 68		217 TO 221 178 TO 182		
558 500	65 TO 69		178 TO 182 206 TO 210		5 5
599 600	65 TO 69		216 TO 220		5
*** FOR	66 TO 70			ABOVE ***	
I Un		- J. L.			

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	67 TO 71			ABOVE ***
**** FOR	68 TO 72			ABOVE ****
**** FOR	69 TO 73	-		ABOVE ***
**** FOR	70 10 74			ABOVE ****
**** FOR	83 TO 87		1 70 5	ABOVE ****
**** FCR	84 TO 88	-	2 TO 6	ABOVE ***
**** FCR	85 TO 89		5 TO 9	ABOVE ***
**** FOR	86 TO 90			ABOVE ***
**** FCR	87 TO 91			ABOVE ***
**** FOR	88 TO 92	•	_	ABOVE ****
**** FCR	89 TO 93			
**** FOR	90 TO 94	-		ABOVE **** ABOVE ****
**** FCR **** FOR	91 TO 95 92 TO 96	•		
**** FOR **** FCR	92 TO 96 93 TO 97			ABOVE ***
**** FOR	94 TO 98	•		
6C1	96 TO 100	22		5 5
**** FOR	96 TO 100			ABOVE ****
**** FOR	100 TO 104	•		ABOVE ****
6C2	101 TO 105	18		5 5
£03	101 TO 105	213		5 5
6C4	101 TO 105		2 TO 226	5 5
**** FOR	102 TO 106			ABOVE ****
605	103 TO 107			5 5
**** FOR	106 TO 110			ABOVE ****
**** FOR	107 TO 111		2 TO 6	ABOVE ****
**** FOR	108 TO 112		1 TO 5	ABOVE ****
**** FCR	109 TO 113	• SEE 18	8 TO 22	ABOVE ****
**** FOR	110 TO 114	• SEE	8 TO 12	ABOVE ****
**** FCR	111 TO 115	• SEE	9 TO 13	ABOVE ***
**** FOR	112 TO 116	• SEF	2 TO 6	ABOVE ***
**** FOR	113 TO 117		1 TO 5	ABOVE ****
**** FOR	114 TO 118			ABOVE ****
**** FOR	115 TO 119			ABOVE ***
**** FOR	116 TO 120			ABOVE ****
**** FOR	117 TO 121			ABOVE ****
**** FGR	118 TO 122			ABOVE ***
**** FCR	119 TO 123		6 TO 20	
**** FOR	120 TO 124	=	5 TO 9	ABOVE ****
**** FCR	121 TO 125		6 TO 10	
*** FOR	122 TO 126		6 TO 20 5 TO 9	
**** FOR	123 TO 127 124 TO 128			ABOVE ***
**** FOR 606	127 70 131	• 3EE 19		5 5
**** FOR	127 TO 131			ABOVE ***
**** FCR	127 TO 131			ABOVE ***
**** FOR	130 TO 134			ABOVE ***
**** FOR	130 TO 134			ABOVE ***
**** FOR	132 TO 136			ABOVE ***
**** FCR	132 TO 136			ABOVE ***
**** FCR	134 TO 138			ABOVE ***
I UN	-34 10 130	- J		

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	135 TO 139	• SEF	18 TO 22	ABOVE ***
**** FOR	136 TO 140		19 TO 23	ABOVE ****
**** FOR	138 TO 142	•	20 TO 24	
**** FOR	139 TO 143		9 TO 13	
**** FCR	140 TO 144		18 TO 22	
**** FCR	141 TO 145		8 TO 12	ABOVE ****
**** FCR	142 TO 146		38 TO 42	
**** FOR	143 TO 147		6 TO 10	
**** FOR	144 TO 148		16 TO 20 1 TO 5	
**** FCR **** FCR	145 TO 149		18 TO 22	
**** FOR	147 TO 151		8 TO 12	
**** FOR	148 TO 152		9 TO 13	
**** FOR	149 TO 153		18 TO 22	ABOVE ****
**** FOR	150 TO 154		8 TO 12	
**** FOR	151 TO 155	-	38 TO 42	
**** FCR	152 TO 156		6 TO 10	
**** FOR	153 TO 157		16 TO 20	ABOVE ****
**** FOR	154 TO 158		1 TO 5	
**** FOR	155 TO 159		18 TO 22	
**** FOR	156 TO 160		8 TO 12	
**** FOR	157 TO 161		9 TO 13	ABOVE ***
**** FCR	163 TO 167		5 TO 9	ABOVE ****
**** FGR	164 TO 168	• SEE	6 TO 10	ABOVE ***
**** FOR	165 TO 169	SEE	16 TO 20	ABOVE ***
**** FOR	166 TO 170	• SEF	1 TO 5	ABOVE ****
**** FCR	167 TO 171		2 TO 6	ABOVE ****
**** FOR	168 TO 172		01 TO 105	
607	169 TO 173		80 TO 184	5 5
**** FOR	170 TO 174		27 TO 131	ABOVE ****
**** FOR	171 TO 175		65 TO 69	ABOVE ***
**** FOR	172 TO 176		1 TO 5	
**** FOR	173 TO 177		2 TO 6	ABOVE ****
**** FCR	174 TO 178		5 TO 9	
**** FOR	175 TO 179		6 TO 10	ABOVE ****
**** FOR **** FCR	176 TO 180		16 TO 20 1 TO 5	
608	178 TO 182		09 TO 213	
609	181 TO 185		10 TO 214	
**** FOR	181 TO 185			ABOVE ****
**** FOR	182 TO 186			ABOVE ****
**** FOR	183 TO 187		5 TO 9	
**** FOR	184 TO 188		14 TO 18	
**** FOR	185 TO 189		15 TO 19	
**** FOR	186 TO 190		16 TO 20	
**** FOR	187 TO 191		5 TO 9	
**** FGR	188 TO 192		6 TO 10	
**** FOR	189 TO 193		16 TO 20	
**** FOR	190 TO 194		1 TO 5	
**** FOR	191 TO 195		18 TO 22	
**** FGR	192 TO 196	• SEE	8 TO 12	ABOVE ****

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	193 TO 197			ABOVE ****
**** FOR	194 TO 198		6 TO 10	ABOVE ***
**** FOR	195 TO 199		16 TO 20	
**** FOR	196 TO 200		1 TO 5	ABOVE **** ABOVE ****
**** FOR	197 TO 201		18 TO 22 19 TO 23	ABOVE ****
**** FOR ***	198 TO 202 202 TO 206		20 TO 24	
**** FOR	202 TO 207		9 TO 13	ABOVE ***
**** FOR	204 TO 208		2 10 6	ABOVE ****
**** FOR	205 TO 209		1 TO 5	ABOVE ****
**** FOR	206 TO 210		178 TO 182	ABOVE ***
**** FOR	207 TO 211		63 TO 67	ABOVE ****
**** FOR	208 TO 212	SEE	64 TO 68	ABOVE ****
**** FOR	209 TO 213	• SEE	65 TO 69	ABOVE ****
**** FOR	210 TO 214		101 TO 105	ABOVE ***
**** FOR	213 TO 217		181 TO 185	ABOVE ***
**** FOR	216 TO 220		178 TO 182	ABOVE ***
**** FOR	217 TO 221		63 TO 67	ABOVE ****
**** FOR	220 TO 224	_	103 TO 107	ABOVE ****
**** FOR	222 TO 226		181 TO 185	ABOVE ****
**** FOR	223 TO 227		2 TO 6 5 TO 9	ABOVE **** ABOVE ****
**** FOR **** FCR	224 TO 228 225 TO 229		5 TO 9 6 TO 10	ABOVE ****
**** FOR	225 TO 229 226 TO 230		16 TO 20	ABOVE ***
**** FOR	227 TO 231		5 TO 9	ABOVE ***
**** FOR	228 TO 232		6 TO 10	
**** FOR	229 TO 233		16 TO 20	ABOVE ****
**** FOR	230 TO 234		5 10 9	ABOVE ***
**** FCR	231 TO 235		6 TO 10	ABOVE ***
**** FOR	232 TO 236		16 TO 20	ABOVE ***
**** FOR	233 TO 237	• SEE	5 TO 9	ABOVE ***
**** FOR	234 TO 238		14 TO 18	
**** FOR	235 TO 239		15 TO 19	
**** FCR	236 TO 240			ABOVE ***
**** FOR	237 TO 241		1 70 5	
**** FOR	238 TO 242		18 TO 22	
**** FOR	239 TO 243		19 TO 23	
**** FOR **** FOR	240 TO 244 241 TO 245		20 TO 24 9 TO 13	ABOVE ****
**** FCR	241 TO 245 242 TO 246		18 TO 22	
**** FOR	243 TO 247		8 TO 12	
**** FOR	244 TO 248		38 TO 42	
**** FOR	245 TO 249		6 TO 10	
**** FOR	246 TO 250		16 TO 20	
**** FOR	247 TO 251		1 TO 5	
**** FOR	248 TO 252		18 TO 22	
**** FOR	249 TO 253		8 TO 12	ABOVE ****
**** FOR	250 TO 254		38 TO 42	
**** FOR	251 TO 255		6 TO 10	
**** FOR	252 TO 256			ABOVE ****
**** FCR	253 TO 257	'• SEE	1 TO 5	ABOVE ****

PATTERN NCTES RELATED TO NOTES TEST LENGTH

**** FCR 254 TO 258. SEE 18 TO 22 ABOVE ****

**** FOR 255 TO 259. SEE 19 TO 23 ABOVE ****

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 518 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED T	C I	NOTE	S	TEST	LENGTH
610	1 70	6		10	TO	15	5	6
611 612	1 TO 1 TO	6 6		22 28	TO TO	2 7 33	5 5	6 6
613	1 70	6		30	TO	35	5	6
614	1 TO	6		32	TO	37	5	6
615	1 TO	6		34	TO	39	5	6
616	1 TO	6		53	TO	58	5	6
617	1 TO	6		70	TO	75	5	6
618	1 TO	6		72	TO	77	5	6
619	1 TO	6		74		79	5	6
62C	1 TO	6		76	TO	81	5	6
621	1 TO	6		78	TO	83	5	6
622	1 TO 1 TO	6		80 82	TO TO	85 87	5 5	6
623 624	1 TO 1 TO	6		107	TO	112	5	6 6
625	1 10	6		112	TO	117	5	6
626	1 TO	6		158	TO	163	5	6
627	1 TO	6		160	TO	165	5	6
628	1 TO	6		204	TO	209	5	6
629	1 TO	6		214	TO	219	5	6
<i>€</i> 30	2 10	7		11	TO	16	5	6
631	2 TO	7		29	TO	34	5	6
632	2 TO	7		31	TO	36	5	6
633	2 TO	7		33	TO	38	5	6
634	2 TO	7		52	TO	57	5	6
635	2 TO	7		71	TO	76	5	6
636 637	2 TO 2 TO	7 7		73 75	TO TO	78 80	5 5	6 6
63 <i>1</i>	2 TO	7		77	TO	82	5	6
639	2 TO	7		79	TO	84	5	6
640	2 TO	7		81	TO	86	Ś	6
641	2 TO	7		83	TO	88	5	6
642	2 TO	7		159		164	5	6
643	2 TO	7		161	TO	166	5	6
644	2 TO	7		166	TO	171	5	6
645	2 10	7		172		177	5	6
**** FCR	3 TO	8.	SEE	1		6	ABOVE ***	•
646	4 10	9		9	TO	14	5	6
647	4 10	9		21	TO	26	5	6
648	4 TO	9			TO	32	5	6
649	4 TO	9		69	TO	74	5	6
650 651	4 TO 4 TO	9		106 111	TO	111 116	5 5	6 6
651 652	4 TO	9		157		162	5	6
652	7 10	7		171	ıU	102	9	0

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
653	4 TO	9	203 TO 208	5 6
654	5 TO	10	41 TO 46	5 6
655	5 TO	10	56 TO 61	5 6
<i>€</i> 56	5 TO	10	68 TO 73	5 6
£57	5 TO	10	90 TO 95	5 6
658		10	110 TO 115	5 6
€59		10	129 TO 134	5 6
660		10	147 TO 152	5 6
661		10	156 TO 161	5 6
**** FOR		10. SEE	5 TO 10	ABOVE ****
662		11	40 TO 45	5 6
663		12	39 TO 44	5 6
664		13	85 TO 90	5 6
665		13	120 TO 125	5 6
666		13	163 TO 168	5 6
667		13	174 TO 179	5 6
668		13	187 TO 192	5 6
669		13	224 TO 229	5 6
670		13	227 TO 232	5 6
671		13	230 TO 235	5 6
672	-	14	84 TO 89	5 6
673		14	162 TO 167 173 TO 178	5 6 5 6
674		14		
675		14	182 TO 187	5 6 5 6
676		14	223 TO 228 2 TO 7	5 6 ABOVE ****
**** FOR		15. SEE		ABOVE ****
**** FOR		16. SEE 17. SEF	1 TO 6	ABOVE ****
**** FCR			20 TO 25	5 6
677 678		18 18	26 TO 31	5 6
		18	45 TD 50	5 6
679 680		18	133 TO 138	5 6
681		18	138 TO 143	5 6
682		18	202 TO 207	5 6
683		18	240 TO 245	5 6
684		19	19 TO 24	5 6
685		19	25 TO 30	5 6
686		19	44 TO 49	5 6
687		19	93 TO 98	5 6
€88		19	132 TO 137	5 6
689	•	19	239 TO 244	5 6
**** FOR		19, SEE		ABOVE ****
690		20	24 TO 29	5 6
691		20	43 TO 48	5 6
652		20	92 TO 97	
693		20	131 TO 136	5 6
694		20	135 TO 140	5 6
655		20	197 TO 202	5 6
696		20	238 TO 243	
697		20	254 TO 259	5 6
658		21	23 TO 28	5 6
-	_			

PATTERN	NCTES	RELATE	D TC	NOTE	S	TEST	LFNGTH
699	16 TO	21		35 TO	40	5	6
	16 TO	21		54 TO	59	5	6
	16 TO	21		66 TO	71	5	6
	16 TO	21		88 TO	93	5	6
	16 TO	21		108 TO	113	5	6
-	16 TO	21		113 TO	118	5	6
	16 TO 16 TO	21		145 TO 154 TO	150 159	5 5	6 6
	16 TO 16 TO	21 21		190 TO	195	5	6
	16 TO	21		196 TO	201	5	6
	16 TO	21		237 TO	242	5	6
	16 TO	21		247 TO	252	5	6
	16 TO	21		253 TO	258	5	6
	16 TO	21.	SEE	16 TO	21	ABOVE ***	•
	17 TO	22		51 TO	56	5	6
713	17 TO	22		87 TO	92	5	6
714	17 TO	22		144 TO	149	5	6
715	17 TO	22		153 TO	158	5	6
	17 TO	22		165 TO	170	5	6
	17 TO	22		176 TO	181	5	6
	17 TO	22		189 TO	194	5	6
	17 TO	22		195 TO	200	5	6
	17 TO	22		236 TO 246 TO	241 251	5 5	6 6
	17 TO 17 TO	22 22		246 TO 252 TO	257	5	6
	18 TO	23		118 TO	123	5	6
	18 TO	23		185 TO	190	5	6
	18 TO	23		235 TO	240	5	6
	18 TO	23.	SEE	18 TO	23	ABOVE ***	
	19 TO	24		117 TO	122	5	6
727	19 TO	24		184 TO	189	5	6
728	19 TO	24		234 TO	239	5	6
**** FOR	19 TO	24.	SEE	19 TO	24	ABOVE ***	
	20 TO	25		123 TO	128	5	6
	20 TO	25		183 TO	188	5	6
	20 TO	25		233 TO	238	5	. 6
	21 TO	26.	SEE	9 10		ABOVE ***	•
	22 TO	27.	SEE	2 TO	7	ABOVE ***	∓
	23 TO 24 TO	28 . 29.	SEE SEE	17 TO 18 TO		ABOVE ***	•
	25 TO	30.	SEE	19 TO		ABOVE ***	•
	26 TO	31.	SEE	20 TO		ABOVE ***	
	27 TO	32.	SEE	9 TO		ABOVE ***	
	34 TO	39.	SEE	2 TO		ABOVE ***	•
	35 TO	40.	SFE	17 TO	22	ABOVE ***	•
	36 TO	41		50 TO	55	5	6
733	36 TO	41		86 TO	91	5	6
	36 TO	41		121 TO	126	5	6
	36 TO	41		143 TO	148	5	6
	36 TO	41		152 TO	157	5	6
737	36 TO	41		164 TO	169	5	6

PATTERN	NCTES	RELATED TC	NOTES	TEST LENGT	ГН
738	36 TO 41		175 TO 180	5 6	
739	36 TO 41		188 TO 193	5 6	
740	36 TO 41		194 TO 199	5 6	
741	36 TO 41		225 TO 230	5 6 5 6	
742	36 TO 41		228 TO 233 231 TO 236	5 6 5 6	
743	36 TO 41 36 TO 41		231 TO 236 245 TO 250	5 6	
744 745	36 TO 41 36 TO 41		251 TO 256	5 6	
746	37 TO 42		49 TO 54	5 6	
747	37 TO 42		60 TO 65	5 6	
748	37 TO 42		142 TO 147	5 6	
749	37 TO 42		151 TO 156	5 6	
750	37 TO 42		193 TO 198	5 6	
751	37 TO 42		244 TO 249	5 6	
752	37 TO 42		250 TO 255	5 6	
753	38 TO 43		48 TO 53	5 6	
754	38 TO 43		59 TO 64	5 6	
755	38 TO 43		115 TO 120	5 6	
756	38 TO 43		141 TO 146	5 6	
757	38 TO 43		150 TO 155	5 6	
758	38 TO 43		192 TO 197	5 6	
759	38 TO 43		243 TO 248	5 6	
76 0	38 TO 43		249 TO 254	5 6	
**** FOR	38 TO 43		38 TO 43	ABOVE ****	
**** FCR	39 TO 44		6 TO 11	ABOVE ****	
**** FOR	40 TO 45	-	7 TO 12	ABOVE ****	
**** FCR	41 TO 46	= "	8 TO 13	ABOVE ****	
761	42 TO 47		119 TO 124	5 6	
762 763	42 TO 47		122 TO 127	5 6	
763	42 TO 47		186 TO 191 226 TO 231	5 6 5 6	
764 765	42 TO 47		229 TO 234	5 6	
765 766	42 10 47		232 TO 237	5 6	
**** FCR	43 TO 48	• SEE	18 TO 23	ABOVE ****	
**** FOR	44 TO 49		19 TO 24	ABOVE ****	
**** FOR	45 TO 50		20 TO 25	ABOVE ****	
**** FOR	46 TO 51		42 TO 47	ABOVE ****	
**** FOR	47 TO 52		36 TO 41	ABOVE ****	
**** FOR	48 TO 53		37 TO 42	ABOVE ***	
**** FOR	49 TO 54		38 TO 43	ABOVE ****	
767	50 TO 55		55 TO 60	5 6	
768	50 TO 55		58 TO 63	5 6	
769	50 TO 55		67 TO 72	5 6	
770	50 TO 55		89 TO 94	5 6	
771	50 TO 55		109 TO 114	5 6	
712	50 TO 55		114 TO 119	5 6	
773	50 TO 55		140 TO 145	5 6	
774	50 TO 55		146 TO 151	5 6	
775	50 TO 55		149 TO 154	5 6	
776	50 TO 55		155 TO 160	5 6	
777	50 TO 55		191 TO 196	5 6	

PATTERN	NCTE	S RE	LATED TO	NOTE	S	TEST	LENGTH
778	50 TO	55		242 TO	247	5	6
779	50 TO	55	65.5	248 TO	253	5 400VE +++	. •
**** FOR	51 TO	56 •	SEE	16 TO 1 TO	21 6	ABOVE ***	
**** FOR **** FOR	52 TO 53 TO	57• 58•	SEE SEE	2 10	7	ABOVE ***	-
**** FCR	54 TO	59 •	SEF	17 TO	22		
**** FCR	55 TO	60.	SEE	36 TO	41	ABOVE ***	
**** FOR	56 TO	61.	SEE	8 TO		ABOVE ***	•
**** FOR	57 TO	62.	SEE	42 TO	47		
**** FOR	58 TO	63,	SEE	36 TO	41	ABOVE ***	r #
**** FCR	59 TO	64.	SEE	37 TO	42	ABOVE ***	*
**** FOR	60 TO	65,	SEE	38 TO	43	ABOVE ***	
780	61 TO	66	-	128 TO	133	5	6
781	63 TO	68		207 TO	212	5	6
782	64 TO	69		206 TO	211	5	6
783	64 TO	69		216 TO	221	5	6
784	65 TO	70		177 TO	182	5	6
785	65 TO	70		205 TO	210	5	6
786	65 TO	70		215 TO	220	5	6
**** FCR	66 TO	71.	SEE	17 TO	22	ABOVE ***	r a k
**** FGR	67 TO	72.	SEE	36 TO	41	ABOVE ***	*
**** FOR	68 TO	73.	SEE	8 TO	13	ABOVE ***	*
**** FOR	69 TO	74.	SEE	9 T O	14	ABOVE ***	**
**** FCR	70 TO	75.	SEE	2 TO	7	ABOVE ***	*
4444 FOR	82 TO	87•	SFE	2 TO	7	ABOVE ***	*
**** FOR	83 TO	88•	SEE	1 TO	6	ABOVE ***	r a k
**** FOR	84 TO	89.	SEF	4 TO	9	ABOVE ***	*
**** FOR	85 TO	90.	SEE	5 TO	10	ABOVE ***	
**** FOR	0T 68	91.	SEE	50 TO	55		
**** FOR	87 TO	92.	SEE	16 TO	21		
**** FCR	88 TO	93.	SEE	17 TO	22	ABOVE ***	
**** FOR	89 TO	94,	SEE	36 TO	41	ABOVE ***	_
**** FOR	90 TO	95.	SEE	8 TO	13	ABOVE ***	*
**** FOR	91 10	96•	SEE	42 TO	47	ABOVE ***	
**** FCR	92 TO	97.	SEE	18 TO	23	ABOVE ***	
**** FOR	93 TO	98.	SEE	19 TO	24	ABOVE ***	_
787	101 TO	106	SEE.	221 TO 101 TO	226	5 ABOVE ***	. . 6
**** FOR	101 TO 102 TO	106.	SEE	220 TO	106 225	5	6
788 **** FCR	102 TO 106 TO	107 111.	SEE	9 TO	14	ABOVE ***	rak
**** FCR	105 TO	112.	SEE	2 10	7	ABOVE ***	color
		113.	SEE	17 TO		ABOVE ***	: *
**** FOR	108 TO	114.	SEE	36 TO		ABOVE ***	: :
**** FGR	110 TO	115.	SEE	8 TO	13		
**** FOR	111 TO	116.	SEE	9 TO	14		
**** FOR	112 TO	117.	SEE	2 TO		ABOVE ***	
**** FCR	113 TO	118.	SEF	17 TO		ABOVE ***	
**** FCR	114 TO	119.	SEE	36 TO	41		
**** FOR	115 TO	120.	SEE	37 TO	_	ABOVE ***	*
**** FOR	117 TO	122.	SEE	14 TO	19		*
**** FCR	118 TO	123.	SEE	15 TO		ABOVE ***	*

PATTI	ERN	,	NCTE	S	RELATED TO	r	OTE	S	TEST	LENGTH
789		119		124		130		135	5	6
79		119	TO	124			TO TO	139	5 5	6 6
791 792		119 119	TO TO	124 124		139 148	TO	144 153	5	6
793		119	TO	124		241	10	246	ś	6
****		120	TO	125	SEE	5	TO		ABOVE **	
****	FOR	121	TO	126		50	TO	55	ABOVE **	
****	FOR	122	TO	127		119	TO	124	ABOVE **	**
****	FOR	123	TO	128		13	TO	18	ABOVE **	**
****		129	TO	134		8	TO	13	ABOVE **	**
****	FOR	130	TO	135	SEE	42	TO	47	ABOVE **	**
****	FOR	131	TO	136	SEE	18	TO	23	AROVE **	**
****	FOR	132	TO	137		19	TO		ABOVE **	
****		133	TG	138		20	TO	25	ABOVE **	
****		134	TO	139		42	TO	47	ABOVE **	
****	FCR	135	TO	140.		18	TO	23	ABOVE **	
****		138	TO	143.		20	TO	25	ABOVE **	
****	FCR	139	TO	144.		42	10	47	ABOVE **	
****	FOR	140	TO	145.		36	TO TO	41 42	ABOVE **	
****		141 142	TO TO	146		38	TO	43	ABOVE **	
****		143	TO	148		50	TO	55	ABOVE **	
****	FOR	144	TO	149		16	TO	21	ABOVE **	
****	FOR	145	TO	150		17	TO		ABOVE **	
****		146	TO	151		36	TO	41	ABOVE **	
****			TO	152		8	TO	13	ABOVE **	
****		148	TO	153		42	TO	47	ABOVE **	**
****	_	149	TO	154		36	TO	41	ABOVE **	**
****	FOR	150	TO	155		37	TO	42	ABOVE **	**
****	FCR	151	TO	156	SEE	38	TO	43	ABOVE **	**
****	FOR	152	TO	157,	SEE	50	TO	55	ABOVE **	
****	FOR	153	TO	158			TO	21	ABOVE **	
****		154	TO	159		17	TO		ABOVE **	
****	FCR	155	TO	160.		36	TO	41	ABOVE **	
****	FOR	156	TO	161		8	TO		ABOVE **	
****		157	TO	162		9	TO	14	ABOVE **	
****		162	TO	167		4	TO TO	9	ABOVE **	
****	FOR	163	TO TO	168		5 50	TO	10 55	ABOVE **	
****	FOR	164 165	TO	169, 170,		16	TO	21	ABOVE **	
****	FOR		TO	171		10	TO	6	ABOVE **	
754		167		172	322	181		186	5	6
79		167	TO	172		213	TO	218	5	6
796		167	TO	172			TO	227	5	6
75		168	TO	173		180	TO	185	5	6
798		169	TO	174		179	TO	184	5	6
****		169	TO	174.	SEE	169	TO	174	ABOVE **	**
799	9	170	TO	175		178	TO	183	5	6
****		171	TO	176			TO		ABOVE **	
****		172	TO	177		1	TO	6	ABOVE **	
****	FOR	173	TO	178	SEF	4	TO	9	ABOVE **	**

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	174 TO 179	•		ABOVE ****
**** FOR	175 TO 180			ABOVE ****
**** FOR	176 TO 181			ABOVE ****
**** FGR	182 TO 187 183 TO 188			ABOVE ***
**** FOR	183 TO 188 184 TO 189			ABOVE ****
**** FOR	185 TO 190			ABOVE ****
**** FOR	186 TO 191			ABOVE ****
**** FOR	187 TO 192			ABOVE ****
**** FOR	188 TO 193			ABOVE ****
**** FOR	189 TO 194			ABOVE ****
**** FCR	190 TO 195	• SEE	17 TO 22	ABOVE ****
**** FOR	191 TO 196	• SEE	36 TO 41	ABOVE ***
**** FOR	192 TO 197	• SEE	37 TO 42	ABOVE ****
**** FCR	193 TO 198			ABOVE ****
**** FOR	194 TO 199			ABOVE ***
**** FOR	195 TO 200			A BOVE ****
**** FCR	196 TO 201			ABOVE ****
**** FOR	197 TO 202			ABOVE ****
**** FOR	202 TO 207			ABOVE ****
**** FCR	203 TO 208			ABOVE ****
**** FGR	204 TO 209 207 TO 212		_	ABOVE ****
**** FOR **** FCR	207 TO 212 208 TO 213			ABOVE ****
**** FOR	200 TO 219	-		ABOVE ****
**** FOR	224 TO 229			ABOVE ***
**** FOR	225 TO 230	•		ABOVE ****
**** FOR	226 TO 231			ABOVE ****
**** FOR	227 TO 232			ABOVE ****
**** FOR	228 TO 233			ABOVE ****
**** FOR	229 TO 234			ABOVE ***
**** FOR	230 TO 235	SEE	5 TO 10	ABOVE ****
**** FOR	231 TO 236	• SEE		ABOVE ****
**** FOR	232 TO 237	• SEE		ABOVE ****
**** FOR	233 TO 238			ABOVE ****
**** FOR	234 TO 239			ABOVE ****
**** FOR	235 TO 240			ABOVE ****
**** FOR	236 TO 241			ABOVE ****
**** FOR	237 TO 242			ABOVE ****
**** FGR **** FOR	238 TO 243 239 TO 244			ABOVE ****
**** FOR	239 TO 244 240 TO 245			ABOVE ***
**** FOR	241 TO 246			ABOVE ****
**** FCR	242 TO 247			ABOVE ****
**** FOR	243 TO 248			ABOVE ****
**** FCR	244 TO 249			ABOVE ****
**** FOR	245 TO 250			ABOVE ****
**** FOR	246 TO 251			ABOVE ****
**** FOR	247 TO 252			ABOVE ****
**** FOR	248 TO 253	• SEE	36 TO 41	ABOVE ****
**** FOR	249 TO 254	• SEE	37 TO 42	ABOVE ****

PATTERN	NGTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	250 TO 259	SEE	38 TO 43	ABOVE ***
**** FCR	251 TO 250	• SEE	50 TO 55	ABOVE ****
**** FOR	252 TO 25	SEE	16 TO 21	ABOVE ***
**** FOR	253 TO 258	• SEE	17 TO 22	ABOVE ***
**** FOR	254 TO 259	• SEE	18 TO 23	ABOVE ***

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 728 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED TO	N	OTE	S	TEST	LENGTH
800	1 TO	7		29		35	5	7
8C1	1 TO	7		31	TO	37	5	7
8C 2	1 10	7		33	TO	39	5	7 7
8C3	1 TO 1 TO	7 7		52 71	TO TO	58 7 7	5 5	7
8C4 8O5	1 TO 1 TO	7		73	TO	79	5	7
8C6	1 10	7			TO	81	5	7
807	1 70	7		77	TO	83	5	7
808	1 10	7		79		85	5	7
809	i to	7		81	TO	87	5	7
81G	1 10	7		159		165	5	7
811	2 TO	8			TO	16	5	7
812	2 TO	8		28		34	5	7
813	2 TO	8			TO	36	5	7
814	2 TO	8			TO	38	5	7
815	2 TO	8		70	TO	76	5	7
816	2 10	8			TO	78	5	7
817	2 10	8			TO	80	5	7
818	2 10	8		76	TO	82	5 5	7
819	2 TO 2 TO	8		78 80	TO TO	8 4 86	5 5	7 7
82C 821	2 TO	8 8		82		88	5	7
822	2 10	8			TO	164	5	7
823	2 10	8		160		166	5	7
824	4 TO	10		68	TO	74	5	7
825	4 TO	10		110	TO	116	5	7
826	4 TO	10		156	TO	162	5	7
827	5 TO	11		40	TO	46	5	7
828	6 TO	12		39	TO	45	5	7
829	8 TO	14		84	TO	90	5	7
830	8 TO	14			TO	168	5	7
831	8 TO	14		173	TO	179	5	7 7
832	8 TO	14		223 83	TO	22 9 8 9	5 5	7
833 834	9 TO 9 TO	15 15		161		167	5 5	7
835	9 TO	15			TO	178	5	7
836	13 TO	19		19		25	5	7
837	13 TO	19		25	TO	31	5	7
838	13 TO	19		44	TO	50	5	7
839	13 TO	19		132	TO	138	5	7
840	13 TO	19		239	TO	245	5	7
841	14 TO	20		24	TO	30	5	7
842	14 TO	20		43	TO	49	5	7
843	14 TO	20		92	TO	98	5	7

PATTERN	NCTE	S	RELATED	TO	NOTE	S	TEST	LENGTH
844	14 TO	20			131 TO	137	5	7
845	14 TO	20			238 TO	244	5	7
846	15 10	21			23 TO	29	5	7
847	15 TO	21			196 TO	202	5	7
848	15 TO 15 TO	21			237 TO 253 TO	243 259	5 5	7 7
849 850	16 TO	21 22			87 TO	93	5	7
851	16 TO	22			144 TO	150	5	7
852	16 10	22			153 TO	159	5	7
853	16 TO	22			189 TO	195	5	7
854	16 TO	22			195 TO	201	5	7
855	16 TO	22			236 TO	242	5	7
€56	16 70	22			246 TO	252	5	7
857	16 TO	22			252 TO	258	5	7
858	17 10	23			235 TO	241	5 5	7 7
859 860	18 TO 18 TO	24 24			117 TO 184 TO	123 190	5	7
861	18 10	24			234 TO	240	5	7
862	19 TO	25			183 TO	189	5	7
863	19 TO	25			233 TO	239	5	7
864	20 TO	26			182 TO	188	5	7
865	36 TO	42			49 TO	55	5	7
866	36 TO	42			142 TO	148	5	7
867	36 TO	42			151 TO	157	5	7
868	36 TO	42			193 TO	199	5	7
869	36 TO	42			244 TO	250	5	7
870	36 TO 37 TO	42 43			250 TO 48 TO	256 5 4	5 5	7 7
871 872	37 TO 37 TO	43			59 TO	65	5	7
873	37 70	43			141 TO	147	5	7
874	37 TO	43			150 TO	156	5	7
£75	37 TO	43			192 TO	198	5	7
876	37 TO	43			243 TO	249	5	7
877	37 TO	43			249 TO	255	5	7
878	42 TO	48			118 TO	124	5	7
879	42 TO	48			185 TO	191	5	7
880	50 TO	56			66 TO	72	5	7
881	50 TO 50 TO	56			88 TO 108 TO	94 114	5 5	7 7
882 883	50 TO 50 TO	56 56			113 TO	119	5	7
884	50 TO	56			145 TO	151	5	7
885	50 TO	56			154 TO	160	5	7
886	50 TO	56			190 TO	196	5	7
887	50 TO	56			247 TO	253	5	7
888	63 TO	69			206 TO	212	5	7
889	64 TO	70			205 TO	211	5	7
890	64 TO	70			215 TO	221	5	7
891	65 TO 101 TO	71			176 TO 220 TO	182 226	5 5	7 7
892 893	101 TO 119 TO	107 125			129 TO	135	5	7
894	119 TO	125			147 TO	153	5	7
077	117 10	12)						•

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
895	167 TO 173		180 TO 186	5	7
896	168 TO 174		179 TO 185	5	7
897	169 TO 175		178 TO 184	5	7
898	170 TO 176		177 TO 183	5	7
897	169 TO 175		178 TO 184	5	7 7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 754 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TG NOTES	TEST	LENGTH
8 9 9	1 TO 8		28 TO 35 30 TO 37	5 5	8 8
901) }	32 TO 39	5	8
902		9	70 TO 77	5	8
503	1 TO 8		72 TO 79	5	8
904	1 TO (74 TO 81	5	8
905	1 TO 8		76 TO 83	5	8
906 907	1 TO (78 TO 85 80 TO 87	5 5	8
908	1 TO		158 TO 165	5	8 8
909	2 TO 9		9 TO 16	5	8
910	2 TO		27 TO 34	5	8
911	2 TO 9)	69 TO 76	5	8
912	2 TO 9		157 TO 164	5	8
913	5 TO 12		39 TO 46	5	8
914	8 TO 19		83 TO 90 161 TO 168	5	8
915 916	8 TO 15		161 TO 168 172 TO 179	5 5	8 8
517	9 10 16		82 TO 89	5	8
518	9 TO 16		160 TO 167	5	8
919	13 TO 20	}	24 TO 31	5	8
92 0	13 TO 20		43 TO 50	5	8
921	13 TO 20		131 TO 138	5	8
922	13 TO 20		238 TO 245	5	8
923 924	14 TO 21		23 TO 30 237 TO 244	5 5	8
925	15 TO 22		195 TO 202	5	8 8
926	15 TO 22		236 TO 243	5	8
927	15 TO 22		252 TO 259	5	8
928	16 10 23		235 TO 242	5	8
929	17 TO 24		234 TO 241	5	8
930	18 TO 25		183 TO 190	5	8
931	18 TO 25		233 TO 240	5	8
932 933	19 TO 26		182 TO 189 48 TO 55	5 5	8 8
933 934	36 TO 43		141 TO 148	5	8
935	36 TO 43		150 TO 157	5	8
936	36 TO 43		192 TO 199	5	8
937	36 TO 43		243 TO 250	5	8
538	36 TO 43		249 TO 256	5	8
939	42 TO 49		117 TO 124	5	8
540	42 TO 49		184 TO 191 107 TO 114	5	8
941 942	50 TO 57		107 TO 114 112 TO 119	5 5	8 8
792	ינ טוי טכ		112 10 119	כ	B

NCTE	S	RELATED	TO	N	OTE	S	TEST	LENGTH
63 TO	70			205	TO	212	5	8
65 TO	72			175	TO	182	5	8
119 TO	126			146	TO	153	5	8
167 TO	174			179	TO	186	5	8
168 TO	175			178	TO	185	5	8
169 TO	176			177	TO	184	5	8
	63 TO 65 TO 119 TO 167 TO 168 TO	65 TO 72 119 TO 126 167 TO 174 168 TO 175	63 TO 70 65 TO 72 119 TO 126 167 TO 174 168 TO 175	63 TO 70 65 TO 72 119 TO 126 167 TO 174 168 TO 175	63 TO 70 205 65 TO 72 175 119 TO 126 146 167 TO 174 179 168 TO 175 178	63 TO 70 205 TO 65 TO 72 175 TO 119 TO 126 146 TO 167 TO 174 179 TO 168 TO 175 178 TO	63 TO 70 205 TO 212 65 TO 72 175 TO 182 119 TO 126 146 TO 153 167 TO 174 179 TO 186 168 TO 175 178 TO 185	63 TO 70 205 TO 212 5 65 TO 72 175 TO 182 5 119 TO 126 146 TO 153 5 167 TO 174 179 TO 186 5 168 TO 175 178 TO 185 5

374
*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 775 SECONDS INTO EXECUTION.

PATTERN	NOTE	S	RELATED	TO	NOTE	S	TEST	LENGTH
549	1 10	ç			27 TO	35	5	9
950	1 TO	9			69 TO	77	5	9
551	1 70	9			157 TO	165	5	9
952	2 T O	10			68 TO	76	5	9
953	2 TO	10			156 TO	164	5	9
954	8 T O	16			82 TO	90	5 5	9
955	8 TO	16			160 TO	168	5	9
956	13 TO	21			23 TO	31	5	9
957	13 TO	21			237 TO	245	5	9
958	14 TO	22			236 TO	244	5	9
959	15 TO	23			235 TO	243	5	9
960	16 TO	24			234 TO	242	5	9
961	17 TO	25			233 TO	241	5	9
962	18 TO	26			182 TO	190	5	9
963	42 TO	50			183 TO	191	5	9
964	65 TO	73			174 TO	182	5	9
965	167 TO	175			178 TO	186	5	9
966	168 TO	176			177 TO	185	5	9

375
*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 793 SECONDS INTO EXECUTION.

PATTERN	1	NCTE	S	RELATED	TO	1	NOTE	S	TEST	LENGTH
967	1	TO	10			68	TO	77	5	10
968	1	TO	10			156	TO	165	5	10
969	13	TO	22			236	TO	245	5	10
97 0	14	TO	23			235	TO	244	5	10
971	15	TO	24			234	TO	243	5	10
572	16	TO	25			233	TO	242	5	10
573	65	TO	74			173	TO	182	5	10
574	167	TO	176			177	TO	186	5	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH --TCNAL RETROGRADE WAS BEGUN AT 810 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTES	TEST	LENGTH
575	13 TO	23	235 TO 24	45 5	11
576	14 TO	24	234 TO 24	44 5	11
977	15 TO	25	233 TO 24	43 5	11
578	65 TO	75	172 TO 18	82 5	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -TCNAL RETROGRADE WAS BEGUN AT 827 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TO	NOTE	S	TEST	LENGTH
579 58 0	13 TO 14 TO	24 25			245 244	5 5	12 12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 843 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
981	13 TO 2	5	233 TO 245	5	13

SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 860 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

ENC OF TYPE I LISTING. TOTAL OF 981 PATTERNS LOCATED.

380 *** TYPE II LISTING ***

ECGARC VARESE DENSITY 21.5 FOR SOLO FLUTE TONAL RETROGRACE

	LOCATION OF FIRST OCCURRENCE		TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	13 TC	25	2	13	
SLEPATTERN	15 TO	22	4	8	
SUBPATTERN	13 TO	20	5	8	
SUEPATTERN	18 TO	24	4	7	
SUBPATTERN	16 TO	22	9	7	
SLEPATTERN	15 TC	21	5	7	
SUEPATTERN	14 TO	20	6	7	
SUBPATTERN	13 TO	19	6	7	
SUEPATTERN	20 TO	25	4	6	
SUBPATTERN	19 TO	24	4	6	
SUPPATTERN	18 TO	23	4	6	
SUPPATTERN	17 TO	22	12	6	
SUBPATTERN	16 TO	21	15	6	
SUBPATTERN	15 TO	20	9	6	
SUBPATTERN	14 TO	19	7	6	
SUBPATTERN	13 TO	18	8	6	
SUBPATTERN	20 TO	24	5	5	
SUBPATTERN	19 TO	23	4	5	
SUPPATTERN	18 TO	22	19	5	
SUBPATTERN	16 TO	20	24	5	
SUBPATTERN	15 TO	19	10		
SUBPATTERN	14 TO	18	9	5 5	

^{****} TEST 5 COMPLETED AT 1047 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS *********

EDGAR VARESE DENSITY 21.5 FOR SOLO FLUTE

TFST REQUESTED 6
UNITS OF DATA PER CARD 15

CCMPLTER REFERENCE NUMBER ASSIGNMENT

NOTES	1	TH	RCUG	Н	15									
55	54	56	51	56	51	57	55	54	56	57	51	57	56	57
NOTES	16	TH	ROUG	H	30									
56	54	51	57	51	57	59	60	57	60	57	60	62	63	62
NCTES													7.0	
63	€2	63	62	63	62	63	62	64	10	64	58	64	70	53
NCTES	4.4	7.1.	D C LI C	ы	40									
	65					44	65	47	45	67	45	66	6.8	55
27	63	11	27	12	10	00	69	01	0)	01	0,5	00	00	"
NOTES	61	TH	R CUG	н	75									
56						59	61	58	61	75	74	75	74	75
70	•	••		•	•		•	•	••	• •		• •	•	
NOTES	76	TH	ROUG	Н	90									
74	75	74	75	74	75	74	75	74	75	74	76	61	60	61
NCTES														
59	60	61	59	60	74	75	74	74	74	54	51	54	51	51
NCTES												•		
51	54	64	51	64	51	52	58	54	58	52	65	81	80	68
MOTEC	121	TU	0.000	u 1	25									
NOTES	E1					40	67	47	67	4.9	40	54	57	58
0 /	61	EU	00	0.1	80	00	01	0.	71	00	09	70	<i>)</i> (70
NCTES	136	TH	BUILE	н 1	50									
59	54					73	80	83	80	73	83	73	80	83
	-	•	•••	• • •		•••							•	
NCTES	151	TH	R CUG	н 1	65									
73					83	73	80	83	80	83	80	83	80	83
ACTES														
80	73	74	65	74	65	65	64	65	63	65	64	63	65	63
ACTO =	. -													
NCTES									. م					
C 4	64	65	63	65	61	56	55	57	56	うう	57	55	56	57

NCTES 196 THRCUGH 210 56 55 57 52 58 59 66 72 75 90 85 88 85 88 88 NCTES 211 THRCUGH 225 **85 88 85 88 85** 88 85 88 88 58 58 58 59 57 NCTES 226 THRCUGH 240 74 68 67 74 68 67 74 68 67 74 54 52 51 54 51 NCTES 241 THROUGH 255 54 56 57 54 57 71 60 54 60 50 54 64 54 50 64 NCTES 256 THRCUGH 265 50 54 60 64 68 75 77 79 85 -99

THE FCLLCWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

*** TYPE I LISTING ***

FDGAR VARESE

DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 27 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
1 2	1 10	3	56 TO 58 90 TO 92	6 3
3 4		3 3	93 TO 95 179 TO 181	6 3 6 3
5	1 TO	3 3	192 TO 194	6 3 6 3 6 3
6	7 TO '	9	57 TO 59	
**** FOR		O. SEE	1 70 3	ABOVE ****
7	9 10 1		15 TO 17	6 3
8 9	10 TO 1:		12 TO 14 19 TO 21	6 3 6 3
10	11 TO 1		41 TO 43	6 3
11	11 TO 1		247 TO 249	6 3 6 3 6 3
12	13 TO 1		29 TO 31	6 3
13	13 TO 1		31 TO 33	6 3
14	13 TO 19		33 TO 35	6 3 6 3 6 3 6 3
15	13 TO 1		35 TO 37	6 3
16	13 TO 1		63 TO 65	6 3
17	13 TO 19		71 TO 73 73 TO 75	6 3
18 19	13 TO 1:		75 TO 77	6 3 6 3
20	13 TO 1		77 TO 79	6 3
21	13 TO 1		79 TO 81	6 3
22	13 TO 1		81 TO 83	6 3 6 3 6 3
23	13 TO 1		83 TO 85	6 3
24	13 TO 1		90 OT 98	6 3
25	13 TO 1		172 TO 174	6 3
26	14 TO 1		28 TO 30	6 3 6 3
27	14 TO 1		30 TO 32	6 3
28	14 TO 10		32 TO 34	6 3 6 3
29 30	14 TO 16		34 TO 36 36 TO 38	6 3 6 3
31	14 TO 16		72 TO 74	6 3
32	14 TO 1		74 TO 76	
33	14 TO 1		76 TO 78	6 3 6 3 6 3
34	14 TO 1	6	78 TO 80	6 3
35	14 TO 1		80 TO 82	6 3 6 3 6 3
36	14 TO 10		82 TO 84	6 3
37	14 TO 1		84 TO 86	6 3
38	14 TO 1		96 TO 98 194 TO 196	6 3 6 3
39 40				
	14 TO 1 15 TO 1		194 TO 196 21 TO 23	6 3

PATTERN	NCTES	RELATED TO	NOTES	TEST LEN	GTH
42	15 TO 17		241 TO 243		3
43	16 TO 18		26 TO 28	6	3
44	16 70 18		240 TO 242	6	3 3 3
45	18 TO 20		39 TO 41	-	3
**** FOR	19 TO 21		11 TO 13	ABOVE ***	
**** FOR	21 TO 23		9 70 11	ABOVE ****	_
46	23 TO 25		25 TO 27		3
47	23 TO 25		68 TO 70 101 TO 103	6	<i>5</i>
48 49	23 TO 25		101 TO 103 159 TO 161	6	<i>ງ</i>
50	23 10 25		161 TO 163	6	3 3 3 3 3 3
51	23 TO 25		163 TO 165	6	ر 2
52	23 TO 25		207 TO 209	6	ე ვ
53	23 TO 25		210 TO 212	6	3
54	23 TO 25		215 TO 217		
55	23 TO 25		217 TO 219	6	3 3 3 3
56	23 TO 25		239 TO 241	6	3
57	23 TO 25		243 TO 245	6	3
58	24 TO 26		102 TO 104		
59	24 TO 26		143 TO 145	6	3 3 3 3
60	24 TO 26		152 TO 154	6	3
61	24 10 26	•	158 TO 160	6	3
62	24 TO 26	•	160 TO 162		
63	24 TO 26	•	162 TO 164	6	3
64	24 TO 26	•	164 TO 166	6	3 3 3
65	24 TO 26		206 TO 208	6	3
66	24 TO 26		211 TO 213	6	3
67	24 10 26		214 TO 216	6	3 3
68	24 TO 26		216 TO 218	6	3
69	24 TO 26		238 TO 240		3
**** FGR	25 10 27			ABOVE ****	
**** FOR	27 TO 29		9 TO 11		
**** FOR	28 TO 30			ABOVE ****	
**** FCR	29 TO 31		13 TO 15	ABOVE ****	
**** FOR **** FOR	30 TO 32			ABOVE ****	
**** FCR **** FCR	31 TO 33 32 TO 34		13 TO 15 14 TO 16	ABOVE ++++	
**** FOR	32 TO 34 33 TO 35		13 TO 15	ABOVE ++++	
**** FOR	34 TO 36			ABOVE ***	
**** FGR	35 TO 37			ABOVE ***	
**** FCR	36 TO 38			ABOVE ****	
**** FGR	37 TO 39		1 TO 3	ABOVE ****	
**** FOR	39 TO 41		18 TO 20	ABOVE ***	
70	40 TO 42		42 TO 44		3
71	40 TO 42		45 TO 47		3
72	40 TO 42		46 TO 48		3
**** FOR	41 TO 43		11 TO 13	ABOVE ***	
73	43 TO 45	3	225 TO 227		3
**** FOR	52 TO 54		1 TO 3	ABOVE ****	
74	53 TO 55		55 TO 57		3
75	53 TO 55	i	178 TO 180	6	3

PATTERN	NCTE	S RE	LATED TO	NOTE	S	TEST	LENGTH
76	53 TO	55		191 TO	193	6	3
77	54 TO	56		66 TO	68	6	3
78	54 TO	56		174 TO	176	6	3 3
79	54 TO	56		183 TO	185	6	
**** FOR	55 TO	57 •	SEE	53 TO	55	ABOVE ***	
60	5 6 TO	58		85 TO	87	6	3
81	56 TO	58		177 TO	179	6	3
82	56 TO	58		187 TO	189	6	3 3
83	56 TO	58		190 TO	192	6	3
84	56 TO	58		196 TO	198	6	3
£ 5	57 TO	59		236 TO	238	6	3
**** FOR	63 TO	65•	SEE	13 TO		ABOVE ***	•
86	64 TO	66	ccc	171 TO	173	6 ABOVE +++	3
**** FOR	66 TO	68.	SEE	54 TO	56 25	ABOVE ***	
**** FOR	68 TO	70•	SEE	23 TO	25		
**** FCR	71 TO	73 •	SEE	13 TO 14 TO	15	ABOVE ***	
**** FOR	72 TO 73 TO	74,	SEE See	14 TO	16 15	ABOVE ***	-
**** FOR	74 TO	75 .	SEE	14 TO	16	ABOVE ***	
**** FOR	74 TO	76, 77,	SEE	13 10	15	ABOVE ***	
**** FOR	76 TO	78.	SEE	14 TO	16	ABOVE ***	
**** FOR	77 TO	79.	SEE	13 TO	15	ABOVE ***	
**** FOR	78 TO	80.	SEE	14 TO	16	ABOVE ***	
**** FCR	79 TO	81.	SEE	13 TO	15	ABOVE ***	
**** FCP	80 TO	82.	SEE	14 TO	16	ABOVE ***	
**** FOR	81 TO	83.	SEE	13 TO	15	ABOVE ***	
**** FOR	82 TO	84.	SEE	14 TO	16	ABOVE ***	*
**** FOR	83 TO	85.	SEE	13 TO	15	ABOVE ***	*
**** FOR	84 TO	86.	SEE	14 TO	16	ABOVE ***	*
**** FOR	85 TO	87,	SEE	1 TO	3	ABOVE ***	*
**** FOR	88 TO	90.	SEE	13 TO		ABOVE ***	*
87	89 TO	91		175 TO	177	6	3
88	89 TO	91		188 TO	190	6	3
**** FOR	90 TO	92.	SEF	56 TO		ABOVE ***	*
89	91 TO	93		176 TO	178	6	3
90	91 TO	93		189 TO	191	6	3
91	91 TO	93		195 TO	197	6	3
**** FOR	92 TO	94,	SEE	89 TO	91	ABOVE ***	*
**** FOR	93 TO	95•	SEE	56 TO	58	ABOVE ***	
**** FOR	96 TO	98•	SEE	14 TO		ABOVE ***	
92	97 TO	99		181 TO	183	6	3
93	97 TO	99		222 TO	224	6	3
94	98 TO	100		104 TO	106	6	3
\$5	98 TO	100	.	221 TO	223	6	. 3
**** FOR	101 TO	103.	SEE	23 TO		ABOVE ***	
**** FOR	102 TO	104,	SEE	24 TO		ABOVE ***	
96	103 TO	105		105 TO	107	6	3
97	103 TO	105		213 TO	215	6	3
**** FOR	104 TO	106.	SEE	98 TO		ABOVE ***	
98	105 TO	107		212 TO	214	6	3
99	111 TO	113		226 TO	228	6	3

PATTERN	NCTES	RELATED TO	NOTES	TE	ST LENGTH
100	111 TO 113		229 TO	231	6 3
101	111 TO 113				6 3 6 3
102	112 TO 114				6 3
1C3	124 TO 126				6 3
**** FOR	127 TO 129		97 TO	99 ABOVE	
**** FOR	133 TO 135		91 TO	93 ABOVE	
**** FCR	134 TO 136	• SEE	91 70		****
104	140 TO 142				6 3
105	140 TO 142				6 3 6 3
106					6 3 6 3 6 3 6 3 6 3
167 168	141 TO 143				6 3
109	142 TO 144				6 3
110	142 TO 144				6 3
111	142 10 144				6 3
**** FOR	143 TO 145	• SEE	24 TO		
112	144 TO 146	• 355			6 3
113	144 TO 146				
114	144 TO 146				6 3
115	145 TO 147				6 3
116	145 TO 147				6 3 6 3 6 3 6 3
117	145 TO 147				6 3
**** FOR	146 TO 148	• SEE		142 ABOVE	-
**** FOR	147 TO 149			143 ABOVE	
**** FCR	148 TO 150			144 ABOVE	***
**** FOR	150 TO 152		141 TO	143 ABOVE	***
**** FOR	151 TO 153		142 TO	144 ABOVE	***
**** FOR	152 TO 154	• SEE	24 TO	26 ABOVE	***
**** FCR	153 TO 155	• SEE	144 TO	146 ABOVE	***
**** FCR	154 TO 156	• SEE	145 TO	147 ABOVE	***
**** FOR	155 TO 157			142 ABOVE	
**** FCR	156 TO 158			143 ABOVE	
**** FOR	157 TO 159			144 ABOVE	
**** FOR	158 TO 160		24 TO	26 AROVE	
**** FOR	159 TO 161		23 TO	25 ABOVE	
**** FOR	160 TO 162		24 TO	26 ABOVE	
**** FOR	161 TO 163		23 TO	25 ABOVE	
**** FOR	162 TO 164		24 TO	26 ABOVE	
**** FCR	163 TO 165		23 TO 24 TO	25 ABOVE 26 ABOVE	
**** FOR **** FCR	164 TO 166 165 TO 167			146 ABOVE	
	165 TO 167 166 TO 168	• 366			
118 119	166 TO 168				6 3 6 3
120	166 70 168				6 3 6 3
121	171 70 173				6 3
**** FGR	172 TO 174	• SEE	13 TO	15 ABOVE	
**** FCR	173 TO 175		89 TO	91 ABOVE	
**** FOR	174 TO 176		54 TO	56 ABOVE	
122	175 10 177	, QCC			6 3
123	175 TO 177				6 3
124	176 10 178				6 3
·			- · · · ·		_

PATTERN	NCTES	S RE	LATED TO	NOTE	S	TEST	LENGTH
**** FCR	177 TO	179.	SEE	1 TO	3	ABOVE ***	•
**** FOR	178 TO	180.	SEE	53 TO	55		
**** FOR	179 TO	181.	SEE	56 TO	58	ABOVE ***	
**** FCR	180 TO	182,	SEE	64 TO		ABOVE ***	
**** FOR	182 TO	184.	SEE	89 TO	91	ABOVE ***	
**** FOR	183 TO	185.	SEE	54 TO		ABOVE ***	
**** FCR	187 TO	189,	SEE	1 70	3	ABOVE ***	
**** FOR	188 TO	190.	SEE	175 TO	177		
**** FOR	189 TO	191.	SEE	176 TO	178	ABOVE ***	
**** FOR	190 TO	192.	SEE	1 TO	3	ABOVE ***	
**** FCR	191 TO	193.	SEE	53 TO	55	ABOVE ***	
**** FOR	192 TO	194.	SEE	56 TO	58	ABOVE ***	
**** FOR	193 TO	195.	SEF	91 TO		ABOVE ***	
**** FOR	194 TO	196.	SEE	14 TO		ABOVE ***	
**** FOR	195 TO	197.	SEE	176 TO	178	ABOVE ***	
**** FOR	196 TO	198,	SEE	1 TO	3	ABOVE ***	
**** FOR	206 TO	208•	SEE	24 TO		ABOVE ***	
**** FOR	207 TO	209•	SEF	23 TO	25	ABOVE ***	*
125	209 TO	211		218 TO	220	6	3
**** FOR	210 TO	212.	SEE	23 TO	25	ABOVE ***	
**** FOR	211 TO	213.	SEE	24 TO	26		
**** FOR	212 TO	214.	SEE	103 TO		ABOVE ***	
**** FCR	213 TO	215.	SEE	105 TO		ABOVE ***	
**** FOR	214 TO	216.	SEE	24 TO		ABOVE ***	
**** FOR	215 TO	217.	SEE	23 TO		ABOVE ***	
**** FOR	216 TO	218.	SEE	24 TO		ABOVE ***	
**** FCR	217 TO	219.	SEE	23 TO	25	ABOVE ***	
**** FOR	221 TO	223.	SEE	98 TO	100	ABOVE ***	
**** FOR	223 TO	225.	SFE	89 TO	91	ABOVE ***	
**** FOR	236 TO	238.	SEE	7 TO	9	ABOVE ***	
**** FOR	238 TO	240.	SEE	24 TO	26	ABOVE ***	*
**** FOR	239 TO	241.	SEF	23 TO	25	ABOVE ***	*
**** FOR	241 TO	243.	SEE	9 TO		ABOVE ***	
**** FOR	243 TO	245.	SEE	23 TO		ABOVE ***	
**** FCR	247 TO	249.	SEE	11 TO		ABOVE ***	*
126	250 TO	252		252 TO	254	6	3
**** FOR	251 TO	253.	SEE	140 TO		ABOVE ***	
127	253 TO	255		255 TO	257	6	3

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 207 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENG TH
128 129	7 TO 10		56 TO 59 28 TO 31	6	4
130 131	13 TO 16		30 TO 33 32 TO 35	6 6	4
132	13 TO 16		34 TO 37	6	4
133	13 TO 16		72 TO 75	6	4
134	13 TO 16		74 TO 77	6	4
135	13 TO 16		76 TO 79 78 TO 81	6 6	4
136 137	13 TO 16		80 TO 83	6	4
138	13 10 16		82 TO 85	6	4
139	14 TO 17		27 TO 30	6	4
140	15 TO 18		26 TO 29	6	4
141	15 TO 18		240 TO 243	6	4
142	23 TO 26		158 TO 161	6	4
143	23 TO 26 23 TO 26		160 TO 163 162 TO 165	6 6	4
144 145	23 TO 26		206 TO 209	6	4
146	23 TO 26		214 TO 217	6	4
147	23 TO 26		216 TO 219	6	4
148	23 TO 26		238 TO 241	6	4
149	24 TO 27		101 TO 104	6	4
150	24 TO 27		159 TO 162	6	4
151	24 TO 27		161 TO 164	6	4
152 153	24 TO 27 24 TO 27		163 TO 166 210 TO 213	6 6	4 4
154	24 10 27		215 TO 218	6	4
155	28 TO 31		31 TO 34	6	4
156	28 TO 31		33 TO 36	6	4
157	28 TO 31		35 TO 38	6	4
158	28 TO 31		71 TO 74	6	4
159	28 TO 31		73 TO 76 75 TO 78	6	4 4
160 161	28 TO 31 28 TO 31		77 TO 80	6 6	4
162	28 TO 31		79 TO 82	6	4
163	28 TO 31		81 TO 84	6	4
164	28 TG 31		83 TO 86	6	4
**** FOR	29 TO 32			ABOVE ***	
**** FCR	30 TO 33		28 TO 31	ABOVE ****	
**** FOR	31 TO 34			ABOVE ****	
**** FOR ***	32 TO 35		28 TO 31 13 TO 16	ABOVE ***	
**** FCR	34 TO 37		28 TO 31	ABOVE ***	
**** FOR	35 TO 38			ABOVE ****	

PATTERN NCTES RELATED TO NOTES TEST	LENGTH
165 52 TO 55 55 TO 58 6	4
166 52 TO 55 178 TO 181 6	4
167 52 TO 55 191 TO 194 6	4
168 55 TO 58 177 TO 180 6	4
169 55 TO 58 190 TO 193 6	4
170 63 TO 66 171 TO 174 6	4
**** FOR 71 TO 74. SEE 13 TO 16 ABOVE **	**
77.7 1CK 12 10 134 3CC 20 10 31 20012	**
1111 (CK 13 10 104 3CC 13 15 16 NOOTE	***
77 JUL 114 DEE 20 10 DE MOOTE	***
322 13 10 10 AUSTE	***
7444 10 10 177 SEE 20 10 32 ROOTE	***
1111 10 00 3EL 13 10 10 MIGHE	***
10 10 10 011 011 10 01 meta	**
77 10 0EV 0EE 13 10 10 NOOTE	**
7777 TOR 00 10 057 522 20 10 32 20072	***
1144 10k 01 10 044 SEE 13 10 10 NOSTE	**
1111 12 10 034 32E 20 10 31 NOOTE	**
1111 JON 05 10 001 322 13 10 10 HOOVE	**
171 89 TO 92 187 TO 190 6	4
172 90 TO 93 176 TO 179 6	4
173 90 TO 93 189 TO 192 6	4
174 90 TO 93 195 TO 198 6	4
175 91 TO 94 175 TO 178 6	4
176 91 TO 94 188 TO 191 6	4
322 07 10 754 JE 10 754 JE	**
177	4
**** FOR 101 TO 104. SEE 23 TO 26 ABOVE **	
178 102 TO 105 213 TO 216 6	4
179 140 TO 143 145 TO 148 6	4
180 140 TO 143 154 TO 157 6	4
181 141 TO 144 144 TO 147 6	4
182 141 TO 144 153 TO 156 6	4
183 142 TO 145 152 TO 155 6	4
184 142 TO 145 164 TO 167 6	4 4
185 143 TO 146 151 TO 154 6	4
186 143 TO 146 157 TO 160 6 187 144 TO 147 147 TO 150 6	4
	4
188 144 TO 147 150 TO 153 6 189 144 TO 147 156 TO 159 6	4
190 145 TO 148 155 TO 158 6	4
	**
	**
	**
101 101 10 10 10 10 10 10 10 10 10 10 10	**
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**
	**
	**
· - · · · · · · · · · · · · · · · · · ·	
#### FOR 155 TG 158. SEE 140 TO 143 ABOVE ##	**
4444 10k 133 10 130t 3EE 140 10 113 month	

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PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
**** FCR	158 TO 16	. SEE	24 TO 27	ABOVE ***	* *
**** FCR	159 TO 163			ABOVE ***	
**** FCR	160 TO 16			ABOVE ***	
**** FOR	161 TO 164			ABOVE ***	
**** FOR	162 TO 165	-		ABOVE ***	
**** FOR	163 TO 166			ABOVE ***	
**** FOR	164 TO 167		143 TO 146	ABOVE ***	k :
191	174 TO 177	•	182 TO 185	6	4
192	176 TO 179)	192 TO 195	6	4
**** FOR	177 TO 180	• SEE	52 TO 55	ABOVE ***	**
**** FOR	178 TO 181	SEE		ABOVE ***	
**** FGR	189 TO 192			ABOVE ***	
**** FOR	190 TO 193			ABOVE ***	
**** FCR	191 TO 194		55 TO 58	ABOVE ***	
**** FOR	192 TO 199		90 TO 93	ABOVE ***	
**** FOR	195 TO 198			ABOVE ***	
**** FCR	206 TO 209			ABOVE ***	
193	209 TO 212		217 TO 220	6	4
**** FCR	210 TO 213			ABOVE ***	
**** FOR	211 TO 214			ABOVE ***	
**** FOR	214 TO 217			ABOVE ***	
**** FOR	215 TO 218			ABOVE ***	
**** FCR	216 TO 219			ABOVE ***	
**** FOR	238 TO 241	• SEE	24 TO 27	ABOVE ***	*

SEARCH FCR PATTERNS OF 5 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 273 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST LENG	ТН
194	13 TO 17		27 TO 31	6 5	
195	14 TO 18		26 TO 30	6 5	
196	90 10 94		175 TO 179	6 5	
197	50 TO 94		188 TO 192	6 5	
**** FCR	90 TO 94	• SEE	90 TO 94	ABOVE ****	
198	91 10 95		187 TO 191	6 5	
199	101 TO 105		213 TO 217	6 5	
200	140 TO 144		144 TO 148	6 5	
201	140 TO 144		153 TO 157	6 5	
202	141 TO 145		152 TO 156	6 5	
203	142 TO 146		151 TO 155	6 5 6 5	
204	143 TO 147		150 TO 154		
2C 5	143 TO 147		156 TO 160	6 5	
**** FOR	143 TO 147	• SEE	143 TO 147	ABOVE ****	
206	144 TO 148		155 TO 159	6 5	
267	145 TO 149		154 TO 158	6 5	
**** FOR	146 TO 150	• SEE	140 TO 144	ABOVE ****	
**** FOR	150 TO 154	• SEE	141 TO 145	ABOVE ****	
**** FOR	151 TO 155	• SEE	142 TO 146	ABOVE ****	
**** FGR	152 TO 156	SEE	143 TO 147	ABOVE ****	
**** FCR	153 TO 157		144 TO 148	ABOVE ****	
**** FOR	154 TO 158		145 TO 149	ABOVE ****	
**** FOR	155 TO 159	SEE	140 TO 144	ABOVE ****	
**** FCR	156 TO 160		141 TO 145	ABOVE ****	
208	157 TO 161	-	163 TO 167	6 5	
209	176 TO 180		191 TO 195	6 5	
210	177 TO 181		190 TO 194	6 5	
**** FOR	189 TO 193	SEE	176 TO 180	ABOVE ****	
**** FOR	190 TO 194		177 TO 181	ABOVE ****	
211	209 TO 213		216 TO 220	6 5	
**** FOR	210 TO 214	SEE		ABOVE ****	

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*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 6 NOTES IN LFNGTH -EXACT RETROGRADE WAS BEGUN AT 335 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
212	13 TO 1	8	26 TO 31	6	6
213	90 TO 9	5	187 TO 192	6	6
214	140 TO 14	5	152 TO 157	6	6
215	141 TO 14	6	151 TO 156	6	6
216	142 TO 14	7	150 TO 155	6	6
<u>د 17</u>	143 TO 14	8	155 TO 160	6	6
218	144 TO 14	9	154 TO 159	6	6
219	145 TO 15	0	153 TO 158	6	6
**** FOR	150 TO 15	5. SEE	141 TO 146	ABOVE ***	*
**** FCR	151 TO 15	6. SEE	142 TO 147	ABOVE ***	*
**** FGR	152 TO 15	7. SEE	143 TO 148	ABOVE ***	*
**** FOR	153 TO 15	8. SEE	144 TO 149	ABOVE ***	*
**** FOR	154 TO 15	9. SEE	145 TO 150	ABOVE ***	*
**** FOR	155 TO 16	O. SEE	140 TO 145	ABOVE ***	*
220	157 TO 16	2	162 TO 167	6	6
**** FOR	157 TO 16	2. SEE	157 TO 162	ABOVE ***	*
221	176 TO 18	1	190 TO 195	6	6
**** FCR	189 TC 19	4. SFE	176 TO 181	ABOVE ***	*

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH --EXACT RETROGRADE WAS BEGUN AT 395 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
722	140 TO 146		151 TO 157	6	7
223	141 TO 147		150 TO 156	6	7
224	143 TO 149		154 TO 160	6	7
225	144 TO 150		153 TO 159	6	7

SEARCH FOR PATTERNS CF 8 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 412 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATE	D TC	NOTE	S	TEST	LENGTH	
726	140 TO 1	· . ·	- -	C TO	7 1	6	8	
227	143 TO 1	.50	15	3 TO	160	6	8	

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 429 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

FNC OF TYPE I LISTING. TOTAL OF 227 PATTERNS LOCATED.

*** TYPE II LISTING ***

EDGAR VARESE DENSITE EXACT RETROGRACE

DENSITY 21.5 FOR SOLO FLUT

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL PATTERN	143 TO 15C	2	8	
SUPPATTERN	144 TO 147	4	4	
SUBPATTERN	145 TO 147	4	4 3 3	
SUBPATTERN	144 TO 146	4	3	
CRIGINAL PATTERN	140 TO 147	2	8	
SLEPATTERN	144 TO 147	4	4	
SUBPATTERN	145 TO 147	4	3	
SUBPATTERN	144 TO 146	4	3	
SLBPATTERN	142 TO 144	4	3 3 3 3	
SUBPATTERN	140 TO 142	4	3	

**** TEST 6 COMPLETED AT 535 SECONDS INTO EXECUTION ****

4444444444 MUSIC MELODIC PATTERN ANALYSIS **********

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 7
UNITS OF DATA PER CARD 15

CCMPUTER REFERENCE NUMBER ASSIGNMENT

	1 T												
55	54 56	51	56	51	57	55	54	56	57	51	57	56	57
NCTES	16 T	HRCUGI	Н	30									
	54 51				59	60	57	60	57	60	62	63	62
70	J	,	7.		,	•		•	- •		V.L	.	-
ACTEC	31 T	ND OLICE	ш	45									
					13			70		ΕO		70	53
6.3	62 63	C Z	03	62	03	02	04	70	64	20	04	10	5
	=												
	46 T					_				_			
59	65 71	59	72	78	66	65	67	65	67	65	66	68	55
	61 T												
56	81 61	60	61	61	59	61	58	61	75	74	75	74	75
NCTES	76 T	HROUG	Н	9C									
74	75 74	75	74	75	74	75	74	75	74	76	61	60	61
				•									
NCTES	91 T	HRCUG	H 1	105									
	60 61				75	74	74	74	54	51	54	51	51
	00 01		00	• •	• •	• •	• •	• •	,	7.	7 1	7.	<i>_</i>
N.C.T.E.C	106 T	up cu ci	u 1	20									
	54 64				5 2	5 0	5	50	5 2	45	01	9.0	68
21	74 64	21	04	21	22	20	74	28	22	07	91	80	00
	121 T												
67	81 80	68	81	80	68	67	67	57	68	69	56	57	58
	136 T												
59	54 60	70	73	83	73	8 C	83	80	73	83	7 3	80	83
NCTES	151 T	HROUG	H 1	165									
73	EC 83	80	73	83	73	80	83	80	83	80	83	80	83
NC TES	166 T	HROUG	н 1	80									
80					65	64	65	63	65	64	63	65	63
30	13 17		, ¬	U J	. ,	5 4		~ J		~ .	. .		
NCTES	181 T	HD OHG	L 1	95									
_	64 65				6 4	65	67	5 4	55	5 7	55	5 4	57
C 4	04 07	C 3	כס	D I	סכ	フフ	フ I	20	フフ	71	フフ	つり	フィ

NCTES 196 THROUGH 210 56 55 57 52 58 59 66 72 75 90 85 88 85 88 88 NCTES 211 THRCUGH 225 88 85 85 88 85 88 85 88 88 58 58 58 59 57 NCTES 226 THROUGH 240 51 74 68 67 74 68 67 74 68 67 74 54 52 54 51 NGTES 241 THROUGH 255 54 56 57 54 57 71 60 54 60 50 54 54 64 50 64 NCTES 256 THROUGH 265 50 54 60 64 68 75 77 79 85 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-OF-DIRECTION

*** TYPE I LISTING ***

ECGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH --TONAL RET. INVERSION WAS BEGUN AT 29 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TC	NOTES	TEST	LENGTH
PATTERN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 TO		NOTES 4 TO 6 6 TO 8 10 TO 12 12 TO 14 14 TO 16 18 TO 20 22 TO 24 24 TO 26 28 TO 30 30 TO 32 32 TO 34 34 TO 36 36 TO 38 39 TO 41 43 TO 45 47 TO 49 50 TO 52 53 TO 55 55 TO 57	TEST 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	1 TO 3 1	3	58 TO 60 61 TO 63 67 TO 69 70 TO 72 72 TO 74 74 TO 76 76 TO 78 78 TO 80 80 TO 82 82 TO 84 84 TO 86 86 TO 88 89 TO 91 92 TO 94 96 TO 98 102 TO 104 107 TO 109 1C9 TO 111 112 TO 114 114 TO 116 117 TO 119 121 TO 123 124 TO 126	7 7 7 7 7 7 7 7 7 7 7 7	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

PATTERN	NCTES		RELATED	TO	NOT	ES	TEST	LENGTH
43	1 TO	3			131 TO	133	7	3
44	1 TO	3			135 TO	137	7	3
45	1 TO	3 3 3			140 TO	142	7	3 3 3 3
46	1 TO	3			143 TO	145	7	3
47	1 TO				146 TO	148	7	3
48	1 10	3			149 TO	151	7	
49	1 TO	3 3 3			152 10	154	7 7	3 3 3 3 3
50	1 70	3			155 TO 158 TO	157 160	7	3
51 52	1 TO 1 TO	3 3 3			160 10	162	7	3
52 53	1 10	ے 2			162 TO	164	7	3
54	1 10	3			164 TO	166	7	3
55	1 TO	3			167 TO	169	7	
56	1 10	3			169 TO	171	7	3
57	1 TO	3			173 TO	175	7	3
58	1 TO	3			175 TO	177	7	3
59	1 10	3 3 3			178 TO	180	7	3 3 3 3
60	1 TO	3			182 TO	184	7	3
61	1 TO	3			184 TO	186	7	3 3
62	1 TO	3 3 3 3			188 TO	190	7	3
63	1 TO	3			191 TO	193	7	3
64	1 10	3			194 TO	196	7	3
65	1 TO	3			197 TO	199	7	3 3 3
66	1 TO	3			204 TO	206	7	
67	1 70	3 3			206 TO	208	7	3
68	1 10	3			211 TO	213	7	3
69	1 70	3			214 TO	216	7	3
70	1 70	3			216 TO 223 TO	218 225	7 7	3 3
71 72	1 10	3			225 TO	227	7	3
72	1 TO	3 3			228 TO	230	7	3
73 74	1 TO 1 TO	3			231 TO	233	7	3
75	1 TO	3			234 TO	236	7	3
76	1 TO	3			238 TO	240	7	
77	1 10	3			242 TO	244	7	3
78	1 TO	3			245 TO	247	7	3 3 3
79	1 TO				248 TO	250	7	3
80	1 TO	3 3 3			251 TO	253	7	
81	1 TO				254 TO	256	7	3 3 3 3 3 3
8 <i>2</i>	2 TO	4			5 TO	7	7	3
83	2 TO	4			8 TO	10	7	3
84	2 TO	4			11 TO	13	7	3
85	2 10	4			13 70	15	7	3
86	2 TO	4			17 TO	19	7	
87	2 TO	4			19 TO 23 TO	21 25	7 7	3 3
88	2 TO 2 TO	4			25 TO	25 2 7	7	3
89 90	2 TO	4			29 TO	31	7	3
\$ 0	2 TO	4			31 TO	33	7	3
52 51	2 10	4			33 TO	35	7	3
93	2 TO	4			35 TO	37	7	3
, ,	2 10	•			J , t G	- •	•	-

PATTERN	NCTES		RELATED TO		NOTE	S	TEST	LENGTH
5 4	2 TO	4		37	TO	39	7	3
95	2 TO	4		41	10	43	7	3
56	2 TO	4		44	TO	46	7	3
\$7	2 TO	4		48	TO	50	7	3
98	2 TO	4		52	TO	54	7	3
59	2 TO	4		54	TO	56	7	3
1 C O	2 10	4		56	TO	58	7	3 3
161	2 10	4		59	TO	61	7	3
102	2 TO	4		63	TO	65	7	3
103	2 TO	4		66	TO	68	7	3
104	2 TO	4		68	TO	70	7	3
105	2 TO	4		71	TO	73 75	7	3
106	2 TO	4		73	TO	75	7	3
107	2 TO	4		75	TO	77 70	7 7	3 3
108	2 TO	4		77 79	TO TO	79	7	3
109	2 TO 2 TO	4		81	TO	81 83	7	3 3
110	2 10	4		83	TO	85	7	3
111	2 TO			85	TO	87	7	3
112 113	2 10	4		88	TO	90	7	3
114	2 TO	4		90	TO	92	7	3
115	2 TO	4		93	TO	95	7	
116	2 10	4		101	TO	103	7	3 3
117	2 10	4		108	TO	110	7	3
118	2 10	4		110	TO	112	7	3
119	2 10	4		113	TO	115	7	3
120	2 10	4		115	TO	117	7	3
121	2 TO	4		120	TO	122	7	3
122	2 TO	4		123	TO	125	7	3
123	2 TO	4		129	TO	131	7	3
124	2 TO	4		132	TO	134	7	3 3
125	2 TO	4		136		138	7	3
126	2 TO	4		141	TO	143	7	3
127	2 TO	4		145	TO	147	7	3
128	2 TO	4		147	TO	149	7	3
129	2 TO	4		150	TO	152	7	3
130	2 TG	4		154	TO	156	7	3
131	2 10	4		156	TO	158	7	3
132	2 TO	4		159	TO	161	7	3
133	2 TO	4		161	TO	163	7	3
134	2 TO	4		163	TO	165	7	3
135	2 TO	4		166	TO	168	7	3
136	2 TD	4		168	TO	170	7	3
137	2 TO	4		172	TO	174	7	3 3 3 3
138	2 T O	4		174	TO	176	7	3
139	2 10	4		177	TO	179	7	3
140	2 TO	4		179	TO	181	7	3
141	2 10	4		183	TO	185	7	3
142	2 10	4		187	TO	189	7 7	3
143	2 10	4		190	TO	192	7	3 3
144	2 TO	4		192	TO	194	,)

PATTERN	NCTES	1	RELATED TC	١	NOTE	S	TEST	LENGTH
145	2 TO	4		196	TO	198	7	3
146	2 TO	4		198	TO	200	7	3
147	2 TO	4		205	TO	207	7	3
148	2 10	4		207 210	TO	209	7 7	3 3
149	2 TO 2 TO	4		215	TO TO	212 217	7	3
150	2 TO 2 TO			217	TO	219	7	3
151 152	2 10	4		224	TO	226	7	3
153	2 TO	4		227	TO	229	7	3
154	2 10	4		230	TO	232	7	3
155	2 TO	4		233	TO	235	7	3
156	2 10	4		237	TO	239	7	3
157	2 TO	4		239	TO	241	7	3
158	2 TO	4		243	TO	245	7	3 3
159	2 TO	4		247	TO	249	7	3
160	2 T O	4		249	TO	251	7	3
161	2 TO	4		253	TO	255	7	3
162	2 10	4		255	TO	257	7	3
**** FOR	3 TO	5.	SEE	1	TO	3	ABOVE ***	**
**** FOR	4 TO	6.	SEE	2	TO	4	ABOVE ***	** ••
**** FCR	5 TO	7•	SEE	1	TO	3	ABOVE ***	**
**** FCR	6 TO	8.	SEE	2	TO	4	ABOVE ***	**
**** FCR	8 TO	10.	SEE	1	TO	3	ABOVE ***	. .
**** FOR	10 TO	12.	SEE	2	TO TO	4	ABOVE ***	r + k*
**** FOR **** FOR	11 TO 12 TO	13. 14.	SEE SEE	1 2	TO	4	ABOVE ***	k#
**** FOR	12 TO	15.	SEE	1	TO	3	ABOVE **	* *
**** FCR	13 TO	16.	SEE	2	TO	4	ABOVE **	k#
**** FOR	17 TO	19.	SEE	ì	TO	3	ABOVE **	**
**** FOR	18 TO	20.	SEE	2	TO	4	ABOVE **	
**** FOR	19 70	21.	SEE	ī	TO	3	ABOVE ***	**
**** FOR	22 TO	24.	SEE	2	TO	4	ABOVE ***	**
**** FCR	23 TO	25.	SEE	1	TO	3	ABOVE ***	**
**** FOR	24 TO	26.	SEE	2	TO	4	ABOVE ***	**
**** FOR	25 TO	27.	SEF	1	TO	3	ABOVE ***	**
**** FOR	28 TO	30•	SEE	2	TO	4	ABOVE ***	**
**** FOR	29 TO	31.	SEE	1	TO	3	ABOVE **	
**** FOR	30 TO	32.	SEF	2	TO	4	ABOVE ***	
**** FCR	31 TO	33.	SEE	1	TO	3	ABOVE **	
**** FOR	32 TO	34.	SEE	2	TO	4	ABOVE ***	
**** FOR	33 TO	35.	SEE	1	TO	3	ABOVE ***	
**** FOR	34 TO	36.	SEE	2	TO	4	ABOVE ***	
**** FOR	35 TO	37.	SFE	1	TO	3		
**** FCR	36 TO 37 TO	38. 39.	SFE SEE	2 1	TO TO	4	ABOVE ***	
**** FCR	37 TO	41.	SEE	2	TO	4	ABOVE **	
**** FOR	41 TO	43.	SEE	1	TO	3	ABOVE **	
**** FGR	43 10	45.	SEF	2	TO	4	ABOVE **	
**** FCR	44 TO	46.	SEE	1	TO	3	ABOVE **	
**** FCR	47 TO	49,	SEE	2	TO	4	ABOVE **	**
**** FCR	48 TO	50.	SEE	1	TO	3	AROVE **	**

PATTERN	NCTES	R	ELATED TO	NOT	ES	TEST	LENGTH
**** FOR	50 TO	52.	SEE	2 10	4	ABOVE ***	: *
44** FOR	52 TO	54.	SEE	1 10	3	ABOVE ***	
**** FOR	53 TO	55.	SEE	2 TO	4	ABOVE ***	
**** FCR	54 TO	56.	SEE	1 10	3	ABOVE ***	
**** FCR	55 TO	57.	SEE	2 10	4	AROVE ***	
**** FOR	56 TC	58.	SEE	1 TO 2 TO	3 4	ABOVE ***	
**** FOR **** FOR	58 TO 59 TO	60. 61.	SEE SEE	1 TO	3	ABOVE ***	
**** FOR	61 10	63.	SEE	2 TO	4	ABOVE ***	-
**** FOR	63 TO	65.	SEE	1 TO	3	ABOVE ***	
163	64 TO	66	JLC	105 TO	107	7	3
164	64 TO	66		181 TO	183	7	3
165	64 TO	66		213 TO	215	7	3
166	64 TO	66		222 TO	224	7	
167	65 TO	67		97 TO	99	7	3
168	65 TO	67		103 TO	105	7	3 3 3 3
169	65 TO	67		127 TO	129	7	3
170	65 TO	67		170 TO	172	7	
171	65 TO	67		212 TO	214	7	3 3
172	65 TO	67		220 TO	222	7	3
**** FCR	66 TO	68.	SEE	1 TO	3	ABOVE ***	
**** FOR	67 TO	69,	SEF	2 TO	4	ABOVE ***	
**** FOR	68 TO	70.	SEF	1 10	3	ABOVE ***	
**** FOR	70 TO	72.	SEE	2 TO	4	AROVE ***	
**** FCR	71 TO	73.	SEE	1 10	3	AROVE ***	
**** FOR	72 TO	74.	SEE	2 TO	4	ABOVE ***	
**** FOR	73 TO	75.	SEE	1 TO	3	ABOVE ***	_
**** FCR	74 TO	76.	SEE	2 TO	4	ABOVE ***	_
**** FOR	75 TO	77.	SEE	1 TO 2 TO	3 4	ABOVE ***	
**** FOR ****	76 TO 77 TO	78. 79.	SEE SEE	1 TO	3	ABOVE ***	•
			SEE	2 10	4	ABOVE **	k de
**** FOR **** FCR	78 TO 79 TO	80. 81.	SEE	1 10	3	ABOVE ***	k dk
**** FCR	80 TO	82,	SEE	2 10	4	ABOVE ***	
**** FGR	81 TO	83.	SEE	1 TO	3	ABOVE ***	
**** FOR	82 TO	84.	SEE	2 TO	4	ABOVE ***	
**** FOR	83 TO	85.	SEE	1 TO	3	ABOVE ***	
**** FOR	84 TO	86.	SEE	2 TO	4	ABOVE ***	**
**** FCR	85 TO	87.	SEE	1 10	3	ABOVE ***	k#
**** FOR	86 TO	88.	SEE	2 TO	4	ABOVE ***	**
**** FOR	0T 88	90.	SEE	1 TO	3	ABOVE ***	
**** FCR	89 TO	91.	SEF	2 10	4	ABOVE ***	
**** FCR	90 TO	92.	SEF	1 10	3	ABOVE ***	
**** FCR	92 TO	94,	SEE	2 10	4	ABOVE ***	
**** FCR	93 TO	95.	SEE	1 10	3	ABOVE ***	
**** FOR	56 TO	98•	SEF	2 10	4	ABOVE ***	
173	97 TO	99		99 TO	101	7	3
174	97 TO	99		128 TO	130	7	3
175	57 TO 57 TO	99 99		171 TO 209 TO	173 211	7 7	3 3
176 177	57 TO	99		219 TO	221	7	3
	,, ,,	, ,				•	-

PATTERN	NCTES	RELATED TO	NOTES	TEST LENG
**** FOR		1. SEE		ABOVE ***
**** FOR		3. SEE	1 TO 3	ABOVE ****
**** FOR		4. SEE	2 TO 4	
**** FOR		5. SEF	97 TO 99	ABOVE ****
178	105 TO 10		180 TO 182	7 3
179	105 TO 10		208 TO 210	7 3
180	1C5 TO 10		218 TO 220	7 3
**** FOR		9. SEE	2 TO 4	
**** FOR		O. SEE	1 TO 3 2 TO 4	ABUVE **** ABOVE ****
**** FCR		1. SFF 2. SFF	2 TO 4 1 TO 3	ABOVE ***
**** FOR		2. SFF 4. SEE	2 TO 4	
**** FOR		5. SEF	1 10 3	ABOVE ****
**** FOR		6. SEE	2 TO 4	
**** FCR		7. SEF	1 10 3	ABOVE ***
**** FCR		9. SEF	2 70 4	
**** FCR		2. SEE	1 TO 3	ABOVE ***
**** FOR		3. SEE	2 TO 4	
**** FOR		5. SEE	1 TO 3	ABOVE ****
**** FOR		6. SEE	2 TO 4	ABOVE ****
**** FOR		9. SEE	97 TO 99	
**** FOR		O. SEE	65 TO 67	
**** FCR		1. SEE	1 10 3	ABOVE ****
**** FOR		3. SEE	2 TO 4	ABOVE ****
**** FOR		4. SEF	1 TO 3	ABOVE ***
**** FOR		7. SFF	2 TO 4	ABOVE ****
**** FCR		8. SEE	1 TO 3	ABOVE ****
**** FGR	140 TO 14	2. SEF	2 TO 4	
**** FGR	141 TO 14	3. SEE	1 TO 3	ABOVE ***
**** FOR	143 TO 14	5. SEF	2 TO 4	ABOVE ****
**** FCR		7. SEF	1 TO 3	ABOVE ***
**** FCR		8. SEE	2 TO 4	
**** FCR		9. SEE		ABOVE ***
**** FCR		1. SEE	2 TO 4	
**** FOR		2. SEE	1 10 3	
**** FCR		4. SEE	2 TO 4	
**** FOR		6. SEF	1 70 3	ABOVE ***
**** FOR		7. SEE	2 TO 4	ABOVE ***
**** FGR		8. SEF	1 70 3	ABOVE ****
**** FOR		O. SEE	2 10 4	AROVE ****
**** FOR		1. SEE	1 10 3	
**** FOR		2. SEE	2 TO 4 1 TO 3	ABOVE **** ABOVE ****
**** FOR		3. SEF	-	
**** FOR		4. SEE 5. SEE	2 TO 4 1 TO 3	ABOVE ***
**** FCR		5. SEE 6. SEE	2 TO 4	
**** FOR		8. SEE	1 TO 3	ABOVE ****
**** FOR		9. SEE	2 TO 4	
**** FOR		0. SEF	1 10 3	
**** FCR		1. SEE		ABOVE ****
**** FCR		2. SEF	97 TD 99	
TTTT FUR	170 10 17	24 356	,, ,,, ,,,	H0041

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR **** FCR	171 TO 173		65 TO 67 1 TO 3	ABOVE **** ABOVE ****
**** FOR	173 TO 175		2 TO 4	
**** FOR	174 TO 176		1 TO 3	ABOVE ****
**** FGR	175 TO 177		2 TO 4	ABOVE ****
**** FOR	177 TO 179	• SEE	1 TO 3	ABOVE ****
**** FOR	178 TO 180	• SEE	2 TO 4	ABOVE ****
**** FOR	179 TO 181		1 TO 3	ABOVE ***
**** FCR	180 TO 182		64 TO 66	ABOVE ****
**** FOR	181 TO 183		105 TO 107	
**** FOR	182 TO 184		2 TO 4	
**** FCR	183 TO 185		1 10 3	ABOVE ****
**** FOR **** FOR	184 TO 186		2 TO 4 1 TO 3	ABOVE ***
**** FOR	187 TO 189		2 TO 4	ABOVE ****
**** FCR	190 TO 192		1 10 3	ABOVE ****
**** FCR	191 TO 193		2 10 4	ABOVE ****
**** FOR	192 TO 194		1 TO 3	ABOVE ****
**** FCR	194 TO 196		2 10 4	ABOVE ***
**** FOR	196 TO 198		1 TO 3	ABOVE ****
**** FOR	197 TO 199		2 TO 4	ABOVE ***
**** FCR	198 TO 200	• SFE	1 TO 3	ABOVE ****
**** FGR	204 TO 206	• SEF	2 TO 4	ABOVE ***
**** FOR	205 TO 207		1 TO 3	ABOVE ***
**** FOR	206 TO 208		2 TO 4	4 BOVE ***
**** FCR	207 TO 209		1 TO 3	ABOVE ****
**** FCR	208 TO 210		64 TO 66	ABOVE ****
**** FCR	209 TO 211		65 TO 67	
**** FCR	210 TO 212		1 10 3	ABOVE **** ABOVE ****
**** FOR	211 TO 213 212 TO 214		2 TO 4 97 TO 99	ABOVE ****
**** FOR **** FCR	212 TO 214 213 TO 215			ABOVE ****
**** FCR	214 TO 216		2 TO 4	
**** FCR	215 TO 217		1 10 3	ABOVE ***
**** FOR	216 TO 218		2 TO 4	ABOVE ***
**** FOR	217 TG 219		1 TO 3	ABOVE ****
**** FOR	218 TO 220		64 TO 66	ABOVE ***
**** FOR	219 TO 221	• SEE	65 TO 67	ABOVE ****
**** FCR	220 TO 222		97 TO 99	
**** FOR	222 TO 224		105 TO 107	
**** FOR	223 TO 225		2 TO 4	
**** FOR	224 TO 226		1 TO 3	ABOVE ****
**** FOR	225 TO 227		2 TO 4	ABOVE ****
**** FCR	227 TO 229		1 70 3	ABOVE ****
**** FCR	228 TO 230		2 TO 4 1 TO 3	AROVE **** ABOVE ****
**** FCR **** FCR	230 TO 232 231 TO 233		2 TO 4	ABOVE ***
**** FGR	233 TO 235		1 70 3	ABOVE ****
4444 FCR	234 TO 236		2 TO 4	ABOVE ****
**** FCR	237 TO 239		1 70 3	ABOVE ****
**** FOR	238 TO 240		2 TO 4	ABOVE ****

PATTERN	NCTES I	RELATED TO	NOTES	TEST LENGTH
**** FOR	239 TO 241.	SEE		3 ABOVE ****
**** FCR	242 TO 244, 243 TO 245,	SEF SEF		6 ABOVE **** 8 ABOVE ****
**** FOR	245 TO 247.	SEF		3 ABOVE **** 4 ABOVE ****
**** FCR	247 TO 249.	SEE	- :	B AROVE ****
**** FOR	248 TO 250.	SEE	2 TO 4	ABOVE ****
**** FOR	249 TO 251.	SEE	1 TO 3	B ABOVE ****
**** FOR	251 TO 253.	SEE	2 TO 4	ABOVE ****
**** FCR	253 TO 255.	SEE	1 TO 3	B AROVE ****
**** FCR	254 TO 256.	SEF	2 TO 4	ABOVE ***
4*** FOR	255 TO 257.	SEE	1 TO 3	3 ABOVE ****

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 148 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATE	D TC	NOTE	S	TEST	LENGTH
181 182	1 TO 1 TO	4		5 TO 11 TO	8 1 4	7 7	4
183	1 TO	4		13 TO	16	7	4
184	1 10	4		17 TO	20	7	4
185	1 70	4		23 TO	26	7	4
186	1 10	4		29 TO	32	7	4
187	1 TO	4		31 TO	34	7	4
188	1 TO	4		33 TO	36	7	4
189	1 70	4		35 TO	38	7	4
190	1 10	4		52 TO	55	7	4
191	1 10	4		54 TO	57	7	4
192	1 10	4		66 TO	69	7	4
193	1 TO	4		71 TO	74	7	4
194	1 TO	4		73 TO 75 TO	76 78	7 7	4
195	1 TO 1 TO	4		77 TO	80	7	4
196 197	1 10	4		79 TO	82	7	4
198	1 70	4		81 TO	84	7	4
199	1 70	4		83 TO	86	7	4
200	1 TO	4		85 TO	88	7	4
201	1 TC	4		88 TO	91	7	4
202	1 TO	4		101 TO	104	7	4
203	1 70	4		108 TO	111	7	4
204	1 TO	4		113 TO	116	7	4
205	1 TO	4		120 TO	123	7	4
206	1 TO	4		123 TO	126	7	4
207	1 TO	4		145 TO	148	7	4
2C8	1 TO	4		154 TO	157	7	4
209	1 10	4		159 TO	162	7	4
21 G	1 TO	4		161 TO	164	7	4
211	1 TO	4		163 TO	166	7	4
212	1 10	4		166 TO	169	7	4
213	1 TO	4		168 TO	171	7	4
214	1 TC	4		172 TO	175	7	4
215	1 70	4		174 TO	177	7 7	4
216	1 10	4		177 TO 183 TO	180	7	4 4
217 218	1 TO 1 TO	4		183 TO 187 TO	186 190	7	4
219	1 TO	4		190 TO	193	7	4
220	1 70	4		196 TO	199	7	4
221	1 TO	4		205 TO	208	7	4
222	1 TO	4		210 TO	213	7	4
223	1 TO	4		215 TO	218	7	4
224	1 10	4		224 TO	227	7	4
· ·							

PATTERN	NCTES		RELATED T	C	N	IOTE	S	TEST	LENGTH
225	1 70	4			227	TO	230	7	4
226	1 10	4			230	TO	233	7	4
227	1 TO	4			233	10	236	7	4
228	1 TO	4			237	TO	240	7	4
229	1 TO	4			247	TO	250	7	4
730	1 TO	4			253	TO	256	7	4
231	2 TO	5			10	TO	13	7	4
232	2 TO	5			12	TO	15	7	4
<i>2</i> 33	2 T O	5			18	TO	21	7	4
734	2 TO	5			22	TO	25	7	4
235	2 TO	5			24	TO	27	7	4
236	2 10	5			28	TO	31	7	4
237	2 TO	5			30	TO	33	7	4
238	2 TO	5			32	TO	35	7	4
239	2 TO	5			34	TO	37	7	4
240	2 TO	5			36	TO	39	7	4
241	2 TO	5			43	TO	46	7	4
242	2 10	5			47	TO	50	7	4
243	2 TO	5			53	TO	56	7	4
744	2 TO	5			55	TO	58	7	4
245	2 TO	5			58	TO	61	7	4
246	2 TO	5			67	TO	70	7	4
247	2 TO	5			70	TO	73	7	4
248	2 TO	5			72	TO	75	7	4
249	2 TO	5			74	TO	77	7	4
250	2 TO	5			76	TO	79	7	4
251	2 TO	5			78	TO	81	7	4
252	2 10	5			80	TO	83	7	4
253	2 TO	5			82	TO	85	7	4
254	2 TO	5			84	TO	87	7	4
255	2 TO	5			89	TO	92	7	4
<i>2</i> 56	2 T O	5			92	TO	95	7	4
257	2 TO	5			107	TO	110	7	4
<i>2</i> 58	2 TO	5 5 5			109	TO	112	7	4
259	2 TO	5			112	TO	115	7	4
260	2 10	5			114	TO	117	7	4
261	2 TO	5 5 5			131	TO	134	7	4
262	2 TO	5			135	TO	138	7	4
263	2 TO	5			140	TO	143	7	4
264	2 TO	5			146	TO	149	7	4
265	2 TO	5			149	TO	152	7	4
266	2 T O	5			155	TO	158	7	4
767	2 TO	5			158	TO	161	7	4
268	2 TO	5 5 5 5 5			160	TO	163	7	4
269	2 TO	5			162	TO	165	7	4
270	2 TO	5			167	TO	170	7	4
271	2 TO				173	TO	176	7	4
272	2 10	5			178	TO	181	7	4
273	2 TO	5 5 5			182	TO	185	7	4
274	2 10	5			191	TO	194	7	4
275	2 10	5			197	ıU	200	7	4

PATTERN	NCTES	R	ELATED TO	NOTE	S	TEST	LENGTH
276	2 TO	5		204 TO	207	7	4
277	2 TO	5		206 TO	209	7	4
278	2 TO	5		214 TO	217	7	4
279	2 TO	5 5 5 5		216 TO	219	7	4
<i>2</i> 80	2 TO	5		223 TO	226	7	4
28 1	2 TO	5		238 TO	241	7	4
2 82	2 TO	5		242 TO	245	7	4
<i>2</i> 83	2 TO	5		248 TO	251	7	4
284	2 TO	5		254 TO	257	7	4
**** FOR	3 TG	6.	SEE	1 10	4	ABOVE ***	*
**** FCR	4 TO	7.	SEE	2 10	5	ABOVE ***	*
**** FCR	5 TO	8.	SEF	1 10	4	ABOVE ***	
285	6 10	9		16 TO	19	7	4
286	6 TO	9		40 TO	43	7	4
287	6 TO	9		51 TO	54	7	4
288	6 TO	9		62 TO	65	7	4
289	6 TO	9		87 TO	90	7 7	4
29C	6 10	9		100 TO 119 TO	103 122	7	4
291 262	6 TO 6 TO	9		119 TO 122 TO	125	7	4
292 293	6 TO 6 TO	9		144 TO	147	7	4
293 294	6 TO	9		153 TO	156	7	4
255	6 TO	9		165 TO	168	7	4
296	6 10	9		176 TO	179	7	4
257	6 TO	9		186 TO	189	7	4
258	6 TO	9		189 TO	192	7	4
299	6 TC	9		195 TO	198	7	4
300	6 TO	9		226 TO	229	7	4
301	6 TO	9		229 TO	232	7	4
302	6 TO	9		232 TO	235	7	4
303	6 TO	9		236 TO	239	7	4
304	6 TO	9		246 TO	249	7	4
305	6 TO	9		252 TO	255	7	4
306	7 10	10		14 TO	17	7	4
3C 7	7 TO	10		39 TO	42	7	4
308	7 10	10		50 TO	53	7	4
309	7 TO	10		61 TO	64	7 7	4
310	7 TO	10		86 TO 117 TO	89 120	7	4
311	7 TO 7 TO	10 10		121 TO	124	7	4
312 313	7 TO	10		124 TO	127	7	4
314	7 TO	10		143 TO	146	7	4
315	7 TO	10		152 TO	155	7	4
316	7 TO	10		164 TO	167	7	4
317	7 TC	10		175 TO	178	7	4
318	7 TO	10		184 TO	187	7	4
319	7 10	10		188 TO	191	7	4
320	7 10	10		194 TO	197	7	4
321	7 TO	10		225 TO	2 <i>2</i> 8	7	4
322	7 TO	10		228 TO	231	7	4
323	7 10	10		231 TO	234	7	4

PATTERN	NCTES	RELATED	TC N	OTES	TEST	LENGTH
324	7 TO 1	.0	234	TO 237	7	4
325	7 TO 1	.0	245	TO 248	7	4
326	7 TO 1	0	251	TO 254	7	4
327	8 TO 1	1	21	TO 24	7	4
328	8 TO 1	.1	27	TO 30	7	4
329		.1		TO 41	7	4
330		1	42	TO 45	7	4
331		.1	46	TO 49	7	4
232		.1	49	TO 52	7	4
333		.1		TO 60	7	4
334		.1		TO 63	7	4
335		.1		TO 72	7	4
336		.1	91	TO 94	7 7	4
337		1	95	TO 98		4
338		.1	106 111	TO 109 TO 114	7 7	4 4
339 340		.1		TO 119	7	4
340 341		.1 .1		TO 133	7	4
341 34 <i>2</i>	_	. 1 . 1		TO 137	7	4
342 343		1		TO 142	7	4
344		. 1		TO 145	7	4
345		1	148	TO 151	7	4
346		1		TO 154	7	4
347		1	157	TO 160	7	4
348		1	193	TO 196	7	4
349		ī		TO 206	7	4
350		ī		TO 244	7	4
351		1		TO 247	7	4
352		1		TO 253	7	4
353		.2		TO 22	7	4
354		2	25	TO 28	7	4
355	9 TO 1	2	37	TO 40	7	4
356	9 10 1	.2	41	TO 44	7	4
357		2	44	TO 47	7	4
358		2	48	TO 51	7	4
359		2		TO 59	7	4
360		2		TO 62	7	4
361		2		TO 71	7	4
362		2		TO 93	7	4
363		2		TO 96	7	4
364		2		TO 113	7	4
365		2		TO 118	7	4
366		2		TO 132	7	4
367		.2		TO 135	7	4
368		2		TO 139 TO 144	7	4
369 370		2		TO 144 TO 150	7 7	4 4
370 371		2		TO 153	7	4
371 372		2		TO 159	7	4
373		2		TO 195	7	4
374		2		TO 201	7	4
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PATIERN	NCTES	F	RELATED TO	NOTE	S	TEST LENGTH
375	9 TO	12		239 TO	242	7 4
376	9 10	12		243 TO	246	7 4
377	9 TO	12		249 TO	252	7 4
378	9 TO	12		255 TO	258	7 4
**** FOR	10 TO	13.	SEE	2 10	5	ABOVE ****
**** FCR	11 TO	14.	SEE	1 10	4	AROVE ****
**** FOR	12 TO	15.	SEF	2 TO	5	A80VE ****
**** FCR	13 TO	16.	SEE	1 TO	4	ABOVE ****
**** FCR	14 TO	17.	SEF SEF	6 TO 7 TO	9 10	ABOVE ****
**** FCR **** FOR	16 TO 17 TO	19. 20.	SEE	1 TO	4	ABOVE ****
**** FOR	18 TO	21.	SEE	2 TO	5	ABOVE ***
**** FCR	19 TO	22.	SEE	8 TO	11	ABOVE ***
**** FCR	21 TO	24.	SEF	9 TO	12	ABOVE ****
**** FGR	22 TO	25.	SEE	2 TO	5	ABOVE ***
**** FOR	23 TO	26.	SEE	1 TO	4	ABOVE ****
**** FOR	24 TO	27.	SEE	2 TO	5	ABOVE ****
**** FOR	25 TO	28.	SEE	8 TO	11	ABOVE ***
**** FOR	27 TO	30,	SEE	9 TO	12	ABOVE ***
**** FOR	28 TO	31.	SEE	2 TO	5	ABOVE ****
**** FOR	29 TO	32.	SEE	1 TO	4	ABOVE ****
4444 FOR	30 TO	33.	SEE	2 TO	5	APOVE ***
*** FOR	31 TO	34.	SEE	1 TO	4	ABOVE ****
**** FOR	32 TO	35,	SEF	2 TO	5	ABOVE ***
**** FOR	33 TO	36.	SEE	1 TO	4	ABOVE ***
**** FOR	34 TO	37•	SEE	2 TO	5	ABOVE ****
**** FOR	35 TC	38•	SEE	1 70	4	ABOVE ***
**** FOR	36 TO	39.	SEE	2 TO	5	ABOVE ****
**** FCR	37 TO	40.	SEF	8 TO	11	ABOVE ****
4*** FCR	38 TO	41.	SEE	9 70	12	ABOVE ****
#### FCR	39 TO	42.	SEE	6 TO	9	ABOVE ****
**** FGR	40 TO	43.	SEF	7 10		ABOVE ****
**** FCR **** FOR	41 TO 42 TO	44. 45.	SEE SEE	8 TO 9 TO	11 12	ABOVE ***
**** FOR	43 TO	46,	SEF	2 TO	5	ABOVE ****
**** FOR	44 TO	47.	SEE	8 TO	11	ABOVE ***
**** FCR	46 TO	49.	SEE	9 TO	12	
**** FOR	47 TO	50.	SEE	2 TO	5	ABOVE ****
**** FCR	48 TO	51.	SEE	8 TO	11	ABOVE ***
**** FOR	49 TO	52.	SEE	9 TO	12	ABOVE ****
**** FOR	50 TO	53.	SEE	6 TO	S	ABOVE ***
**** FCR	51 TO	54.	SEE	7 TO	10	ABOVE ****
**** FCR	52 TO	55•	SEE	1 TO	4	ABOVE ****
**** FOR	53 TO	56,	SEE	2 TO	5	A BOVE ****
**** FGR	54 TO	57.	SEE	1 TO	4	ABOVE ****
**** FOR	55 TO	58.	SEF	2 TO	5	ABOVE ****
**** FGR	56 TO	59.	SEE	8 TO	11	ABOVE ****
**** FGR	57 TO	60,	SEE	9 TO	12	ABOVE ****
**** FCR	58 TO	61.	SFE	2 TO	5	ABOVE ****
#### FOR	59 TO	62.	SEE	8 TO	11	ABOVE ****
**** FOR	60 TO	63.	SEE	9 TO	12	ABOVE ****

**** FCR 61 TO 64.* SEE 6 TO 9 ABOVE **** 379 63 TO 66 380 63 TO 66 381 63 TO 66 381 63 TO 66 382 64 TO 67 213 TO 216 7 4 382 65 TO 68 384 65 TO 68 385 65 TO 68 386 65 TO 68 387 66 TO 70 70 388 65 TO 68 389 TO 172 7 4 4 ABOVE ***** **** FCR 68 TO 71.* SEE 1 TO 4 ABOVE ***** **** FCR 68 TO 72.* SEE 2 TO 5 ABOVE ***** **** FCR 68 TO 73.* SEE 2 TO 12 ABOVE ***** **** FCR 71 TO 74.* SEE 1 TO 4 ABOVE ***** **** FCR 71 TO 75.* SEE 2 TO 5 ABOVE ***** **** FCR 73 TO 75.* SEE 2 TO 5 ABOVE ***** **** FCR 74 TO 77.* SEE 2 TO 5 ABOVE ***** **** FCR 75 TO 78.* SEE 1 TO 4 ABOVE ***** **** FCR 76 TO 79.* SEE 2 TO 5 ABOVE ***** **** FCR 77 TO 80.* SEE 1 TO 4 ABOVE ***** **** FCR 77 TO 80.* SEE 1 TO 4 ABOVE ***** **** FCR 78 TO 80.* SEE 1 TO 5 ABOVE ***** **** FCR 78 TO 80.* SEE 1 TO 4 ABOVE ***** **** FCR 79 TO 80.* SEE 1 TO 4 ABOVE ***** **** FCR 79 TO 80.* SEE 1 TO 5 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 4 ABOVE ***** **** FCR 79 TO 80.* SEE 1 TO 4 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 5 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 4 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 4 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 5 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 6 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 6 ABOVE ***** **** FCR 80 TO 83.* SEE 1 TO 6 ABOVE ****** **** FCR 80 TO 89.* SEE 1 TO 7 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 7 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 8 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 7 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 7 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 8 ABOVE ***** **** FCR 80 TO 89.* SEE 1 TO 8 ABOVE ***** **** FCR 80 TO 99.* SEE 2 TO 8 ABOVE ***** **** FCR 80 TO 99.* SEE 2 TO 8 ABOVE ***** **** FCR 80 TO 99.* SEE 2 TO 8 ABOVE ***** ***** FCR 80 TO 99.* SEE 2 TO 8 ABOVE ***** **** FCR 90 TO 99.* SEE 2 TO 9 ABOVE ***** ***** FCR 90 TO 99.* SEE 2 TO 9 ABOVE ******	PATTERN	NCTES	, ,	RELATED TO	ŧ	NOTE	S	TEST	LENGTH
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**** FOR 70 TO 73.	**** FCR	68 TO	71.	SEE	8	TO	11	ABOVE ***	k afk
**** FGR 71 TO 74.	**** FCR	69 TO	72.	SEF	9	TO	12	ABOVE ***	**
**** FOR 72 TO 75, SEE 2 TO 5 ABOVE **** **** FOR 73 TO 76, SEE 1 TO 4 ABOVE **** **** FOR 74 TO 77, SEE 2 TO 5 ABOVE **** **** FOR 75 TO 78, SEE 2 TO 5 ABOVE **** **** FOR 75 TO 78, SEE 2 TO 5 ABOVE **** **** FOR 77 TO 80, SEE 1 TO 4 ABOVE **** **** FOR 77 TO 80, SEE 1 TO 4 ABOVE **** **** FOR 77 TO 80, SEE 1 TO 4 ABOVE **** **** FOR 77 TO 80, SEE 1 TO 4 ABOVE **** **** FOR 80 TO 81, SEF 2 TO 5 ABOVE **** **** FOR 81 TO 84, SEF 1 TO 4 ABOVE **** **** FOR 81 TO 84, SEF 1 TO 4 ABOVE **** **** FOR 82 TC 85, SEE 2 TO 5 ABOVE **** **** FOR 83 TO 86, SEE 1 TO 4 ABOVE **** **** FOR 83 TO 86, SEE 1 TO 4 ABOVE **** **** FOR 84 TO 87, SEF 2 TO 5 ABOVE **** **** FOR 85 TO 88, SEE 1 TO 4 ABOVE **** **** FOR 85 TO 88, SEE 1 TO 4 ABOVE **** **** FOR 85 TO 89, SEE 6 TO 9 ABOVE **** **** FOR 86 TO 89, SEE 1 TO 4 ABOVE **** **** FOR 87 TO 90, SEF 7 TO 10 ABOVE **** **** FOR 88 TO 91, SEE 1 TO 4 ABOVE **** **** FOR 89 TO 92, SEE 2 TO 5 ABOVE **** **** FOR 90 TO 93, SEE 1 TO 4 ABOVE **** **** FOR 90 TO 93, SEE 1 TO 4 ABOVE **** **** FOR 90 TO 93, SEE 1 TO 5 ABOVE **** **** FOR 90 TO 93, SEE 1 TO 5 ABOVE **** **** FOR 90 TO 93, SEE 8 TO 11 ABOVE **** **** FOR 90 TO 93, SEE 8 TO 11 ABOVE **** **** FOR 90 TO 99, SEE 9 TO 12 ABOVE **** **** FOR 90 TO 99, SEE 9 TO 12 ABOVE **** **** FOR 101 TO 103, SEE 7 TO 10 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 4 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 4 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 4 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 4 ABOVE **** **** FOR 101 TO 105, SEE 9 TO 12 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 4 ABOVE **** **** FOR 106 TO 109, SEE 9 TO 12 ABOVE **** **** FOR 107 TO 110, SEE 1 TO 4 ABOVE **** **** FOR 107 TO 110, SEE 1 TO 5 ABOVE **** **** FOR 107 TO 110, SEE 1 TO 129 TO 124 ABOVE **** **** FOR 100 TO 103, SEE 7 TO 10 ABOVE **** **** FOR 101 TO 104, SEE 1 TO 129 TO 124 ABOVE **** **** FOR 106 TO 109, SEE 9 TO 12 ABOVE **** **** FOR 107 TO 110, SEE 1 TO 129 ABOVE **** **** FOR 106 TO 109, SEE 9 TO 12 ABOVE ***** **** FOR	**** FOR	70 TO	73•	SEE	2	TO	5	ABOVE ***	**
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PATE	ERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
***	FOR	109 TO 11	2. SEE	2 TO 5	ABOVE **	**
111	FOR		3. SEE	8 70 11		
***	FCR		4. SEE		ABOVE **	
***	FOR		5. SEE	2 TO 5	ABOVE **	
***	FOR		6. SEE	1 TO 4	ABOVE **	
***	FOR		7. SEE	2 TO 5	ABOVE **	**
***	FOR	115 TO 11	8. SEE	8 TO 11	ABOVE **	* *
***	FOR		9. SEF	9 TO 12	ABOVE **	**
***	FCR	117 TO 12	O. SEF	6 TO 9	ABOVE **	**
****	FOR	119 TO 12	2. SEE		ABOVE **	**
***	FOR		3. SEF	1 TO 4		
***	FOR		4. SEE	6 TO 9	ABOVE **	
***	FOR		5. SEE		ABOVE **	
****	FOR		6. SEE	1 TO 4	ABOVE **	
***	FOR		7. SEE	6 TO 9	ABOVE_**	
	3	127 TO 13		170 TO 173	7	4
****	FOR		1. SEE		ABOVE **	
****	FOR		2. SEE	8 TO 11	ABOVE **	
***	FOR		3. SEE		ABOVE ***	
****	FOR		4. SEE			
111 *	FOR		5. SEE 7. SEE		ABOVE **	
****	FOR FOR		7. SEE 8. SEE		ABOVE **	
***	FGR		9. SEF	8 TO 11		
***	FOR		2. SEE		ABOVE **	
***	FCR		3. SEF		ABOVE **	
***	FOR		4. SEE		ABOVE **	
***	FOR		5. SEE		ABOVE **	+*
***	FCR		6. SEE		ABOVE **	**
***	FOR		7. SEE	7 TO 10	ABOVE **	**
***	FOR	145 TO 14	8. SEE	1 TO 4	ABOVE **	**
***	FOR	146 TO 14	9. SEE		ABOVE **	**
***	FCR	147 TO 15	O. SEE	8 TO 11	ABOVE **	
***	FOR		1. SEF	9 TO 12		
111	FOR		2. SEE	2 TO 5	ABOVE **	
***	FOR		3. SEE	8 TO 11		
111	FCR		4. SEE	9 10 12		
111	FOR		5. SEE	6 TO 9	ABOVE **	
***	FOR		6. SEE	7 70 10		
***	FOR		7. SEE		ABOVE ***	
1113	FOR		8. SEE	2 TO 5 8 TO 11		
***	FOR FCR		9. SEE		ABOVE **	
***	FOR		1. SEE	2 10 5	ABOVE **	
***	FOR		2. SEE		ABOVE **	
***	END		3. SEE	2 TO 5	ABOVE **	
***	FCR		4. SEE	1 10 4	ABUVE **	
***	FCB		5. SEE	2 TO 5	ABOVE **	
***	ECP		6. SEF	1 TO 4	ABOVE **	**
***	FOR		7. SEE	6 TO 9	ABOVE **	**
***	FOR		8. SEE	7 TO 10	ABOVE **	**

PATT	ERN	NOTE	S	RELATED TO		NOTE	S	TES	T	LENGTH
***	= FOR	166 TO	169,	SEE	1	TO	4	ABOVE	***	*
***		167 TO	170		2	TO	5	ABOVE	***	*
***		168 TO	171.	SEE	1	TO	4	ABOVE	***	*
***	FCR	169 TO	172.	SEE	96	TO	99	ABOVE	***	
***	FOR	170 TO	173		127	TO		ABOVE	***	
***	FCF	171 TO	174.		65	TO	68	ABOVE	***	
***		172 TO	175		1	TO	4			
***		173 TO	176.		2	TO	5	ABOVE	***	
***		174 TO	177.		1	TO	4	ABOVE	***	
****	FOR	175 TO	178		6	TO	9	ABOVE	***	
***	1 0 1	176 TO	179.		7	TO	10	ABOVE		
****	FOR	177 TO	180.		1	TO	4	ABOVE		
***	FOR	178 TO	181		2	TO	5	ABOVE		
***	FOR	179 TO	182	SEE	63 207	TO TO	66 210	ABOVE 7		4
39 39	4 5	181 TO 181 TO	184		217	TO	220	7		4
***	FCR	182 TO	184 185	SEF	211	TO	5	-		
***	FOR	183 TO	186		1	TO	4		***	
****	FCR	184 TO	187		6	TO	9	ABOVE		
****	FCR	186 TO	189		7	TO	10	ABOVE	***	
***	FOR	187 TO	190		1	TO	4	ABOVE	***	*
****	FCR	188 TO	191		6	TO	9	ABOVE	***	*
****	FCR	189 TO	192		7	TO	10	ABOVE	***	*
***	FCR	190 TO	193.		1	TO	4	ABOVE	***	*
***	FOR	191 TO	194.	SEF	2	TO	5	ABOVE	***	*
***	FOR	192 TO	195.	SEE	8	TO	11	ABOVE	***	
***	FCR	193 TO	196	SEF	9	TO	12		***	*
***	FOR	194 TO	197		6	TO	9	ABOVE	***	
***	FOR	195 TO	198.		7	TO	10	ABOVE		
****	FOR	196 TO	199		1	TO	4	ABOVE		
***	FCR	197 TO	200		2	TO	5	ABOVE		
****	FOR	198 TO	201.			TO		ABOVE		
1113	FOR	203 TO	206		9	TO		ABOVE		
***	FCR FOR	204 TO 205 TO	207 . 208 .		1	TO TO		ABOVE		
***	FOR	205 TO	209			to		ABOVE		
***	FOR	207 TO	210			TO		ABOVE		
***	FOR	208 TO	211			TO		ABOVE		
***	FOR	209 TO	212			TO		ABOVE		
***	FOR	210 TO	213		1	TO		ABOVE		
***	FOR	211 TO	214		96	TO	99	ABOVE	***	*
3 9	6	212 TO	215		218	TO	221	7	•	4
****	FCR	213 TO	216	SEE	181	TO	184	ABOVE	***	*
****	FOR	214 TO	217.		2			ABOVE		
***	FOR	215 TO	218		1	TO		ABOVE		
****	FOR	216 TO	219			TO		ABOVE		
****		217 TO	220			TO		AROVE		
***		218 TO	221			TO		ABOVE		
***	1 6.4.	222 TO	225		181			ABOVE		
****	101	223 TO	226			TO		ABOVE		
	FOR	224 TO	227	SEE	1	70	4	ABOVE	~~~	₹

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	225 TO 22	8. SEE	6 TO 9	ABOVE ****
**** FCR	226 TO 22	9. SEF	7 TO 10	ABOVE ****
**** FCR	227 TO 23	D. SEE	1 TO 4	ABOVE ****
**** FOR	228 TO 23	1. SEE	6 10 9	ABOVE ****
**** FOR	229 TO 23	2. SEF	7 TO 10	ABOVE ***
**** FOR	230 TO 23	3. SEE	1 TO 4	ABOVE ****
**** FCR	231 TO 23	4. SEE	6 TO 9	ABOVE ****
**** FCR	232 TO 23	5. SEE	7 TO 10	ABOVE ****
**** FOR	233 TO 23	6, SEE	1 TO 4	ABOVE ****
**** FOR	234 TO 23	7. SEE	6 TO 9	ABOVE ***
**** FOR	236 TO 23	9. SEE	7 TO 10	ABOVE ****
**** FOR	237 TO 24	O. SEE	1 TO 4	ABOVE ****
**** FOR	238 TO 24	1. SEE	2 TO 5	ABOVE ****
**** FOR	239 TO 24	2. SEE	8 TO 11	ABOVE ****
**** FGR	241 TO 24	4. SEF	9 TO 12	ABOVE ****
**** FOR	242 TO 24	5. SEE	2 TO 5	ABOVE ***
**** FOR	243 TO 24	6. SEE	8 TO 11	ABOVE ****
**** FCR	244 TO 24	7. SEE	9 TO 12	ABOVE ****
**** FCR	245 TO 24	B. SEE	6 TO 9	ABOVE ****
**** FCR	246 TO 24	9. SEE	7 TO 10	ABOVE ****
**** FOR	247 TO 25	O• SEE	1 TO 4	ABOVE ****
**** FOR	248 TO 25	1. SEF	2 TO 5	ABOVE ****
**** FOR	249 TO 25	2. SEF	8 TO 11	ABOVE ****
**** FGR	250 TO 25	3. SEE	9 TO 12	ABOVE ****
**** FCR	251 TO 25	4. SEE	6 TO 9	ABOVE ****
**** FOR	252 TO 25	5. SEE	7 TO 10	ABOVE ***
**** FOR	253 TO 25	6. SEE	1 TO 4	AROVE ****
**** FCR	254 TO 25	7. SEE	2 TO 5	ABOVE ****
**** FOR	255 TO 25	8. SEE	8 TO 11	ABOVE ***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 291 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TO NOTES	TEST	LENGTH
357 358 399 400	1 TO 1 TO	5 5 5	10 TO 14 12 TO 16 22 TO 26 28 TO 32	7 7 7	5 5 5 5
401 402 403	1 TO	5 5 5	30 TO 34 32 TO 36 34 TO 38	7 7 7	5 5 5
404 405 406	1 TO 1 TO	5 5 5	53 TO 57 70 TO 74 72 TO 76	7 7 7	5 5 5
407 408 409	1 TO 1 TO	5 5 5	74 TO 78 76 TO 80 78 TO 82	7 7 7	5 5 5
41C 411 412	1 TO 1 TO 1 TO	5 5	80 TO 84 82 TO 86 84 TO 88	7 7 7	5 5 5
413 414 415	1 TO 1 TO 1 TO	5 5 5	107 TO 111 112 TO 116 158 TO 162	7 7 7	5 5 5
416 417 418	1 TO 1 TO	5 5	160 TO 164 162 TO 166 167 TO 171	7 7 7	5 5 5
419 420 421 422	1 TO 1 TO	5 5 5	173 TO 177 182 TO 186 204 TO 208 214 TO 218	7 7 7	5 5 5
423 424 425	1 TO 2	5 5 5	214 TO 218 223 TO 227 11 TO 15 17 TO 21	7 7 7 7	5 5 5
426 427 428	2 TO 2 TO	5 5 5	23 TO 27 29 TO 33 31 TO 35	7 7 7	5 5 5
429 430 431	2 TO (5 5 5	33 TO 37 35 TO 39 52 TO 56	7 7 7	5 5 5
43 <i>2</i> 433 434	2 TO 6 2 TO 6	5 5	54 TO 58 66 TO 70 71 TO 75	7 7 7	5 5 5
435 436 437	2 TO (5 5	73 TO 77 75 TO 79 77 TO 81	7 7 7	5 5 5
438 439 440	2 TO (5 5	79 TO 83 81 TO 85 83 TO 87	7 7 7	5 5 5

PATTERN	NCTES	F	RELATED TO	•	IOTE	S	TEST	LENGTH
441	2 TO	6		88	TO	92	7	5
442	2 TO	6		108	TO	112	7	5
443	2 TO	6		113	TO	117	7	5
444	2 10	6		145	TO	149	7	5
445	2 TO	6		154	TO	158	7	5
446	2 TO	6		159	TO	163	7	5
447	2 TO	6		161	TO	165	7	5
448	2 TO	6		166	TO	170	7	5
449	2 TO	6		172	TO	176	7	5
450	2 TO	6		177	TO	181	7	5
451	2 TO	6		190	TO	194	7	5
452	2 TO	6		196	TO	200	7	5
453	2 TC	6		205	TO	209	7	5
454	2 TO	6		215	TO	219	7	5
455	2 TO	6		237	TO	241	7	5
456	2 TO	6		247	TO	251	7	5
457	2 TO	6		253	TO	257	7	5
**** FCR	3 TO	7.	SEE	1	TO	5	ABOVE ***	*
**** FOR	4 TO	8.	SEE	2	TO	6	ABOVE ***	*
458	5 TO	9		16	TO	20	7	5
459	5 TO	9		51	TO	55	7	5
460	5 TO	9		87	TO	91	7	5
461	5 TO	9		100	TO	104	7	5
462	5 TO	9		119	TO	123	7	5
463	5 TO	9		122	TO	126	7	5
464	5 TO	9		144	TO	148	7	5
465	5 TO	9		153	TO	157	7	5
466	5 TO	9		165	TO	169	7	5
467	5 TO	9		176	TO	180	7	5
46 8	5 TO	9		186	TO	190	7	5
469	5 TO	9		189	TO	193	7	5
470	5 TO	9		195	TO	199	7	5
471	5 TO	9		226	TO	230	7	5
472	5 TO	9		229	TO	233	7	5
473	5 TO	9			TO	236	7	5
474	5 TO	9		236	TO	240	7	5
475	5 TO	9		246	TO	250	7	5
476	5 TO	9		252	TO	256	7	5
477	6 TO	10		39	TO	43	7	5
478	6 TO	10		50	TO	54	7	5
479	6 TO	10		61	TO	65	7	5
480	6 TO	10		86	TO	90	7	5 5
481	6 TO	10		121	TO	125	7	5
482	6 TO	10		143	TO	147	7	5
483	6 TO	10		152	TO TO	156	7 7	5
484	6 TO	10		164 175	TO	168 179	7	5 5
485	6 TO	10					7	
486	6 TO	10		188 194	TO TO	192	7	5 5
487	6 TO 6 TO	10		225	TO	198	7	5
488 489	6 TO 6 TO	10 10		228	TO	229 232	7	5
707	9 10	10		660	10	636	•	,

PATTERN	NCTES	RELAT	ED TO	NOTE	S	TEST	LENGTH
490	6 TO	10		231 TO	235	7	5
491	6 TO	10		245 TO	249	7	5
492	6 TO	10		251 TO	255	7	5
**** FOR	6 TO	10.	SEE	6 TO	10	ABOVE_**	
493	7 10	11		38 TO	42	7	5
494	7 TO	11		49 TO	53	7	5
495	7 10	11		60 TO	64	7	5
496	7 TO	11		116 TO	120	7	5
457	7 TO	11		142 TO	146	7 7	5
458 455	7 TO 7 TO	11 11		151 TO 193 TO	155 197	7	5 5
	7 TO	11		244 TO	248	7	5
500 501	7 TO	11		250 TO	254	7	5
502	8 TO	12		37 TO	41	7	5
503	8 TO	12		41 TO	45	7	5
504	8 TO	12		48 TO	52	7	5
505	8 TO	12		56 TO	60	7	5
506	8 TO	12		59 TO	63	7	5
507	8 TO	12		68 TO	72	7	5
508	8 TO	12		90 TO	94	7	5
509	8 TO	12		110 TO	114	7	5
510	8 TO	12		115 TO	119	7	5
511	8 TO	12		129 TO	133	7	5 5
512	8 TO	12		141 TO	145	7	5
513	8 TO	12		147 TO	151	7	5
514	8 TO	12		150 TO	154	7	5
515	8 TO	12		156 TO	160	7	5
516	8 TO	12		192 TO	196	7	5
517	8 TO	12		243 TO	247	7	5
518	8 TO	12		249 TO	253	7	5
**** FCR	8 TO	12.	SEE	8 TO	12	ABOVE **	
519	9 TO	13		18 TO	22	7	5
520	9 10	13		24 TO	28	7	5
521	9 TO	13		36 TO	40	7	5
522	9 TO	13		43 TO	47	7	5
523	9 TO	13		47 TO	51	7	5
524	9 10	13		55 TO	59	7	5
525	9 TO	13		58 TO	62	7	5
526	9 10	13		67 TO	71	7 7	5
527	9 TO	13		89 TO 92 TO	93	7	5 5 5
528 530	9 TO 9 TO	13 13		92 TO 109 TO	96 113	7	5 5
529 530	9 TO	13		114 TO	118	7	5
530 531	9 10	13		131 TO	135	7	5
532	9 TO	13		135 TO	139	7	5
533	9 TO	13		140 TO	144	7	5 5 5
534	9 TO	13		146 TO	150	7	5
535	9 TO	13		149 TO	153	7	5
536	9 10	13		155 TO	159	7	5
537	9 10	13		191 TO	195	7	5
538	9 10	13		197 TO	201	7	5

PATTERN	NOTES	RELATED TC	NOTES	TEST LENGTH
539	9 TO 1	13	238 TO 242	7 5
540		13	242 TO 246	7 5
541		13	248 TO 252	7 5
542		13	254 TO 258	7 5
**** FOR		14. SEF	2 TO 6	ABOVE ****
**** FOR		SEF	1 TO 5	ABOVE ****
**** FCR		le, SEE	2 TO 6	ABOVE ***
**** FCR		17. SEE	5 TO 9	ABOVE ****
543	14 TO 1	18	118 TO 122	7 5
544	14 TO 1	18	185 TO 189	7 5
545	14 TO 1	18	235 TO 239	7 5
546	15 TO 1	19	117 TO 121	7 5
547	15 TO 1	19	124 TO 128	7 5
548		19	184 TO 188	7 5
549		19	234 TO 238	7 5
**** FOR		l9. SEF	15 TO 19	ABOVE ****
550		20	85 TO 89	7 5
551		20	120 TO 124	7 5
552		20	123 TO 127	7 5
553		20	163 TO 167	7 5
554		20	174 TO 178	7 5
555		20	183 TO 187	7 5
556		20	187 TO 191	7 5
557		20	224 TO 228	7 5 7 5
558		20	227 TO 231	7 5
559		20	230 TO 234	7 5
560		20	233 TO 237	7 5
**** FOR		21. SEE	1 TO 5	ABOVE ****
561 563		22	27 TO 31	7 5 7 5
562 543		22	42 TO 46 46 TO 50	7 5 7 5
563 564		?2 ?2	46 TO 50 57 TO 61	7 5
565		22	69 TO 73	7 5
566		22	91 10 95	7 5
567		?2	106 TO 110	7 5
568		22	111 TO 115	7 5
569		22	130 TO 134	7 5
570		22	134 TO 138	7 5
571		22	139 TO 143	7 5
572		22	148 TO 152	7 5
573		22	157 TO 161	7 5
574		2	203 TO 207	7 5
575		?2	241 TO 245	7 5
576		23	26 TO 30	7 5
577		23	45 TO 49	7 5
578	19 TO 2	?3	94 TN 98	7 5
579	19 TO 2	23	133 TO 137	7 5
580		23	138 TO 142	7 5
581		23	202 TO 206	7 5
582		?3	240 TO 244	7 5
583	20 TO 2	94	25 TO 29	7 5

PATTERN	NCTES	R	ELATED TC	*	NOTE	S	TEST	LENGTH
584	20 TO	24		44	TO	48	7	5
585	20 TO	24		93	TO	97	7	5
586	20 TO	24		132	TO	136	7	5
587	20 TO	24		136	TO	140	7	5
588	20 TO	24		198	TO	202	7	5
589	20 TO	24		239	TO	243	7	5
590	20 TO	24		255	TO	259	7	5
**** FCR	20 TO	24.	SEF	20	TO	24	ABOVE ***	**
**** FCR	21 TO	25.	SEF	9	TO	13	ABOVE ***	k #
**** FOR	22 TO	26.	SEE	2	TO	6	ABOVE ***	k 🋊
**** FOR	24 TO	28.	SEE	18	TO	22	ABOVE ***	**
**** FOR	25 TO	29.	SFE	19	TO	23	ABOVE ***	k 🕸
**** FOR	26 TO	30 •	SEE	20	10	24	ABOVE ***	k#
**** FOR	27 TO	31.	SEE	9	TO	13	ABOVE ***	
**** FGR	35 TO	39 • ·	SEE	1	TO	5	ABOVE ***	
**** FOR	36 TO	40.	SEF	18	TO	22	ABOVE ***	
**** FOR	37 TO	41.	SEE	8	TO	12	ABOVE ***	
**** FCR	39 TO	43.	SEE	6	TO	10	ABOVE ***	-
**** FCR	40 TO	44.	SEE	7	TO	11	ABOVE ***	-
**** FOR	41 TO	45.	SEE	8	TO	12	ABOVE ***	
**** FOR	42 TO	46.	SEE	9	TO	13	ABOVE ***	
**** FCR	43 TO	47.	SEE	18	TO	22	ABOVE ***	
**** FCR	44 TO	48,	SEF	19	TO	23	ABOVE ***	
**** FOR	45 TO	49.	SEE	20	TO	24	~55,5	
**** FCR	46 TO	50.	SEE	9	TO	13		
**** FOR	47 TO	51.	SEE	18 8	TO TO	22 12	ABOVE ***	
**** FOR **** FOR	48 TO 50 TO	52. 54.	SEE SEE	6	TO	10	ABOVE ***	
**** FOR	50 TO	55.	SEE	16	TO	20	ABOVE ***	•
**** FOR	52 TO	56.	SEF	1	TO	5	ABOVE ***	
**** FCR	54 TO	58.	SEE	i	TO		ABOVE ***	
**** FOR	55 TO	59,	SEF	18	TO	22	ABOVE ***	
**** FOR	56 TO	60.	SEE	8	TO	12		
**** FOR	57 TO	61.	SEE	9	TO	13	ABOVE ***	
**** FOR	58 TO	62.	SEE	18	TO	22		**
**** FCR	59 TO	63.	SEE	8	TO		ABOVE ***	k #
**** FOR	61 TO	65.	SEE	6	TO	10	ABOVE ***	k 🛊
591	63 TO	67		212	TO	216	7	5
**** FCR	63 70	67.	SEE	63	TO	67	ABOVE ***	**
592	64 TO	68		211	TO	215	7	5
593	65 TO	69		101		105	7	5
594	65 TO	69		168	TO	172	7	5
595	65 TO	69		210	TO	214	7	5
**** FOR	66 TO	70.	SEE	1	TO	5	ABOVE ***	
**** FGR	67 TO	71.	SEF	18	TO		ABOVE ***	
**** FCR	68 TO	72.	SEF	8	TO		ABOVE ***	
**** FCR	69 TO	73.	SEE	9	TO	13	ABOVE ***	
**** FOR	70 TO	74.	SEE	2	TO	6	ABOVE ***	
**** FOR	83 TO	87.	SEF	1	TO	5	ABOVE ***	
**** FCR	84 TO	88,	SEE	2	TO	6		
**** FCR	85 TO	89.	SEF	5	TO	9	ABOVE ***	P •

PATTERN	NOTES	RELATED TC	NOTES	TEST LENGTH
**** FCR	86 TO 90	• SEF	6 TO 10	ABOVE ****
**** FCR	87 TO 91	• SEE	16 TO 20	
**** FCR	88 TO 92		1 TO 5	
**** FOR	89 TO 93		18 TO 22	
**** FOR	90 TD 94		8 TO 12	
**** FOR	51 TO 95		9 TO 13	
**** FCR	92 TO 96		18 TO 22	
**** FOR	93 TO 97		19 TO 23	
**** FOR	94 TO 98	• SEE	20 TO 24	
596	95 TO 99	crr	128 TO 132	
**** FOR	100 TO 104	• SEE	16 TO 20	
597	101 TO 105		171 TO 175	
598	101 70 105		209 TO 213	•
**** FOR	106 TO 110		9 TO 13	
**** FOR	107 TO 111		2 TO 6	ABOVE ****
**** FCR	108 TO 112		- •	
**** FOR	109 TO 113		18 TO 22	
**** FCR	110 TO 114 111 TO 115		8 TO 12 9 TO 13	
**** FOR			2 10 6	· · - · · -
			1 TO 5	ABOVE ****
	113 TO 117 114 TO 118		18 TO 22	ABOVE ***
**** FCR **** FOR	114 TO 118		8 TO 12	
**** FOR	117 TO 121		14 TO 18	
**** FOR	118 TO 122		15 TO 19	
**** FOR	119 70 123		16 TO 2C	
**** FOR	120 10 124		5 10 9	ABOVE ****
**** FOR	121 TO 125	-	6 TO 10	
**** FCR	122 TO 126		16 TO 20	
**** FOR	123 TO 127		5 TO 9	
**** FOR	124 TO 128			ABOVE ****
599	127 TO 131	•	169 TO 173	
**** FOR	127 TO 131	• SEE	127 TO 131	
**** FOR	129 TO 133		8 TO 12	
**** FOR	130 TO 134		9 TO 13	ABOVE ***
**** FOR	131 TO 135	• SEE	18 TO 22	ABOVE ***
**** FOR	132 TO 136	• SEE	19 TO 23	ABOVE ***
**** FOR	133 TO 137	• SEE	20 TO 24	ABOVE ***
**** FCR	134 TO 138	• SEE	9 TO 13	ABOVE ***
**** FOR	135 TO 139	• SEE	18 TO 22	ABOVE ****
**** FOR	136 TO 140			ABOVE ***
**** FCR	138 TO 142			ABOVE ****
**** FOR	139 TO 143		9 TO 13	
**** FOR	140 TO 144		18 TO 22	
**** FCR	141 TO 145		8 TO 12	
**** FCR	143 TO 147		6 70 10	
**** FOR	144 TO 148		16 TO 20	
**** FOR	145 TO 149		1 10 5	
**** FOR	146 TO 150		18 TO 22	
**** FCR	147 TO 151		8 TO 12	
**** FOR	148 TO 152	• SEE	9 TO 13	ABOVE ***

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	149 TO 153	• SEE	18 TO 22	ABOVE ****
**** FOR	150 TO 154		8 TO 12	ABOVE ***
**** FOR	152 TO 156	• SEE	6 TO 10	ABOVE ***
**** FOR	153 TO 157	• SEE	16 TO 20	
**** FOR	154 TO 158	• SEE	1 TO 5	
**** FCR	155 TO 159		18 TO 22	
**** FOR	156 TO 160		8 TO 12	
**** FOR	157 TO 161		9 TO 13	
**** FOR	163 TO 167		5 TO 9	ABOVE ****
**** FCR	164 TO 168		6 TO 10	
**** FOR	165 TO 169		16 TO 20	
**** FGR	166 TO 170		1 TO 5	ABOVE ****
**** FGR	167 TO 171		2 TO 6	ABOVE **** ABOVE ****
**** FOR	168 TO 172		101 TO 105	
**** FOR	170 TO 174		127 TO 131	
**** FOR **** FOR	171 TO 175 172 TO 176		65 TO 69	ABOVE ****
**** FOR	172 TO 176		2 TO 6	ABOVE ****
**** FOR	174 TO 178		5 TO 9	ABOVE ****
*** FOR	175 TO 178		6 TO 10	
**** FOR	176 TO 180		16 TO 20	ABOVE ****
**** FOR	177 TO 181		1 TO 5	ABOVE ****
600	178 TO 182		213 TO 217	7 5
601	178 TO 182		222 TO 226	7 5
602	181 TO 185		206 TO 210	7 5
603	181 TO 185		216 TO 220	7 5
**** FOR	181 TO 185		181 TO 185	ABOVE ****
**** FOR	182 TO 186	• SEE	2 TO 6	ABOVE ***
**** FCR	183 TO 187	SEF	5 TO 9	ABOVE ****
**** FOR	184 TO 188			ABOVE ****
**** FOR	185 TO 189	• SEE	15 TO 19	ABOVE ****
**** FGR	186 TO 190		16 TO 20	
**** FOR	187 TO 191		5 TO 9	ABOVE ****
**** FOR	188 TO 192		6 TO 10	
**** FOR	189 TO 193			ABOVE ****
**** FCR	190 TO 194		1 10 5	ABOVE ****
**** FOR	191 TO 195		18 TO 22	
**** FOR	192 TO 196		8 TO 12	
**** FOR	194 TO 198		6 TO 10	
**** FGR	195 TO 199			ABOVE ***
**** FOR	196 TO 200		1 TO 5	
**** FOR	197 TO 201		18 TO 22 19 TO 23	ABOVE **** ABOVE ****
**** FOR	198 TO 202		19 TO 23 20 TO 24	
**** FCR **** FOR	202 TO 206 203 TO 207		9 TO 13	ABOVE ****
**** FCR	204 TO 208		2 TO 6	
4+++ FOR	205 TO 209		1 TO 5	
**** FOR	206 TO 210		178 TO 182	7.007.
**** FOR	207 TO 211		63 TO 67	
**** FGR	2C8 TO 212		64 TO 68	
**** FCR	209 TO 213		65 TO 69	

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	210 TO 214		101 TO 105	
6C4	212 TO 216		217 TO 221	7 5
**** FCR	212 TO 216			ABOVE ****
**** FOR	213 TO 217		181 TO 185	ABOVE ****
**** FOR	216 TO 220			
**** FCR	217 TO 221		63 TO 67	
**** FCR	222 TO 226		181 TO 185	
**** FOR	223 TO 227		2 TO 6	
**** FOR	224 TO 228		5 TO 9	
**** FOR	225 TO 229		6 TO 10	
**** FGR	226 TO 230		16 TO 20	
**** FOR	227 TO 231		5 TO 9	
**** FOR **** FCR	228 TO 232		6 70 10	ABOVE ****
	229 TO 233		16 TO 20 5 TO 9	ABOVE ***
**** FOR	230 TO 234 231 TO 235		6 TO 10	
**** FOR **** FCR			16 TO 20	ABOVE ***
**** FCR **** FOR	232 TO 236 233 TO 237		5 TO 9	ABOVE ***
**** FOR		-	14 TO 18	ABOVE ***
**** FOR	234 TO 238 235 TO 239		15 TO 19	ABOVE ****
**** FCR	236 TO 240		16 TO 20	ABOVE ****
**** FOR	237 TO 241		1 TO 5	ABOVE ***
**** FCR	238 TO 242		18 TO 22	
**** FOR	239 TO 243		19 TO 23	ABOVE ***
**** FOR	240 TO 244		20 TO 24	ABOVE ***
**** FOR	241 TO 245		9 TO 13	ABOVE ***
**** FOR	242 TO 246		18 TO 22	ABOVE ****
**** FOR	243 TO 247		8 TO 12	
**** FCR	245 TO 249		6 TO 10	ABOVE ****
**** FOR	246 TO 250		16 TO 20	
**** FOR	247 TO 251			ABOVE ****
**** FOR	248 TO 252			ABOVE ****
**** FCR	249 TO 253		8 TO 12	
**** FCR	251 TO 255		6 TO 10	ABOVE ***
**** FOR	252 TO 256		16 TO 20	
**** FOR	253 TO 257		1 TO 5	ABOVE ****
**** FOR	254 TO 258		-	ABOVE ***
**** FOR	255 TO 259			ABOVE ****

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 479 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED	TC	٨	OTE	S	TEST	LENGTH
6C 5	1 TO	6			11 29	TO TO	16 34	7 7	6 6
606 607	1 TO 1 TO	6			31	TO	36	7	6
608	1 TO	6			33	TO	38	7	6
609	1 TO	6			52	TO	57	7	6
610	1 TO	6			71	TO	76	7	6
611	1 TO	6			73	TO	78	7	6
612	1 TO	6			75	TO	80	7	6
613	1 TO	6			77	TO	82	7	6
614	1 TO	6			79	TO	84	7	6
615	1 TO	6			81	TO	86	7	6
616	1 TO	6			83	TO	88	7	6
617	1 TO	6			159	TO	164	7	6
618	1 TO	6			161	TO	166	7	6
619	1 10	6			166	TO	171	7	6
620	1 TO	6			172	TO	177	7	6
621	2 10	7			10	TO	15	7	6
622	2 TO	7			22	TO	27	7	6
623	2 TO	7			28	TO	33	7	6
624	2 TO	7			30	TO	35	7	6
625	2 TO	7			32 34	TO	37	7 7	6
626	2 TO	7 7			53	TO TO	39 58	7	6 6
627	2 TO 2 TO				70	TO	75	7	
628	2 TO	7 7			72	TO	77	7	6 6
629 630	2 10	7			74	TΩ	79	7	6
631	2 TO	7			76	TO	81	7	6
632	2 TO	7			78	TO	83	7	6
633	2 TO	7			80	TO	85	7	6
634	2 TO	7			82	TO	87	7	6
635	2 TO	7			107		112	7	6
636	2 TO				112		117	7	6
637	2 TO	7 7			158	TO	163	7	6
638	2 TO	7			160	TO	165	7	6
639	2 TO	7			204	TO	209	7	6
640	2 TO	7			214	TO	219	7	6
**** FOR	3 TO	8,	, SE	E	1	TO	6	ABOVE ***	
£41	4 TO	9			16	TO	21	7	6
642	4 TO	9			51	TO	56	7	6
643	4 TO	9			87	TO	92	7	6
644	4 TO	S			144	TO	149	7	6
645	4 TO	9			153	TO	158	7	6
646	4 TO	9			165	TO	176	7	6
647	4 TO	9			176	TO	181	7	6

PATTERN	ı	NCTES		RELATED	TC	ħ	OTE	S	TEST	LENG TH
648	4	TO	9			189	TO	194	7	6
649	4	TO	9			195	TO	200	7	6
650	4	TO	9			236	TO	241	7	6
651	4	TO	9			246	TO	251	7	6
652	4	TO	9			252	TO	257	7	6
653	5	TO	10			50	TO	55	7	6
654	5	TO	10			86	TO	91	7	6
655	5	TO	10			121	TO	126	7	6
656	5	TO	10			143	TO	148	7	6
657	5	TO	10			152	TO	157	7	6
658	5	TO	10			164	TO	169	7	6
659	5	TO	10			175	TO	180	7	6
660	5	TO	10			188	TO	193	7	6
661	5	TO	10			194	TO	199	7	6
662	5	TO	10			225	TO	230	7	6
663	5	TO	10			228	TO	233	7	6
664	5	10	10			231	TO	236	7	6
665	5	TO	10			245	TO	250	7	6
666	5	TO .	10	•		251	TO	256	7	6
**** FOR	5	TO	10.	5	EF	5	TO	10	ABOVE ***	-
667	6	TO	11			38 49	TO	43 54	7 7	6
668	6	TO	11				TO TO	65	7	6
669	6	TO TO	11			60 142	TO	147	7	6
670	6	TO				151	TO		7	6
671 672	6 6	TO	11			193	TO	156 198	7	6 6
672 673	6	TO	11			244	TO	249	7	6
674	6	TO	11			250	TO	255	7	6
675	7	TO	12			37	TO	42	7	6
676	7	T 0	12			48	TO	53	7	6
677	7	TO	12			59	TO	64	7	6
678	7	10	12			115	TO	120	7	6
679	7	TO	12			141	TO	146	7	6
680	7	TO	12			150	TO	155	7	6
681	7	TO	12			192	TO	197	7	6
682	7	TO	12			243	TO	248	7	6
683	7	TO	12			249	TO	254	7	6
684	8	TO	13			36	TO	41	7	6
685	8	TO	13			47	TO	52	7	6
686	8	10	13			55	TO	60	7	6
687	8	TO	13			58	TO	63	7	6
688	8	TO	13			67	TO	72	7	6
689	8	TO	13			89	TO	94	7	6
69C	8	TO	13			109	TO	114	7	6
691	8	TO	13			114	TO	119	7	6
692	8	TO	13			140	TO	145	7	6
693	8	TO	13			146	TO	151	7	6
694	8	TO	13			149	TO	154	7	6
695	8	TO	13			155	TO	160	7	6
696	8	TO	13			191	TO	196	7	6
697	8	TO	13			242	10	247	7	6

698 8 10 13 248 TO 253 7 6 699 9 10 14 17 TO 22 7 6 700 9 10 14 23 TO 28 7 6 701 9 10 14 35 TO 40 7 6 702 9 10 14 54 TO 59 7 6 703 9 10 14 66 TO 71 7 6 704 9 10 14 88 TO 93 7 6 705 9 10 14 113 TO 113 7 6 706 9 10 14 108 TO 113 7 6 707 9 10 14 113 TO 118 7 6 708 9 10 14 154 TO 150 7 6 709 9 10 14 154 TO 150 7 6 709 9 10 14 190 TO 195 7 6 710 9 TO 14 196 TO 201 7 6 711 9 TO 14 237 TO 242 7 6 713 9 TO 14 227 TO 252 7 6 713 9 TO 14 227 TO 252 7 6 714 13 TO 18 18 18 TO 253 TO 240 7 6 715 13 TO 18 18 18 TO 19 7 6 716 13 TO 18 18 18 TO 19 7 6 717 14 TO 19 18 18 TO 19 7 6 718 14 TO 19 18 18 TO 19 7 6 719 14 TO 19 234 TO 239 7 6 722 15 TO 20 233 TO 238 7 6 724 16 TO 20 17 7 6 725 16 TO 21 18 23 TO 238 7 6 726 15 TO 20 233 TO 238 7 6 727 16 TO 20 233 TO 238 7 6 728 17 TO 22 69 TO 7 6 729 17 TO 22 7 6 730 17 TO 22 7 6 731 17 TO 22 10 TO 7 6 731 17 TO 22 10 TO 7 6 732 17 TO 22 10 TO 7 6 733 17 TO 22 20 TO 7 6 734 18 TO 21 SEE 1 TO 167 7 6 735 18 TO 23 26 TO 7 6 736 18 TO 21 SEE 1 TO 16 TO 20 7 6 737 18 TO 21 SEE 1 TO 17 7 6 731 17 TO 22 10 TO 17 7 6 732 17 TO 22 20 TO 27 7 6 733 17 TO 22 20 TO 27 7 6 733 17 TO 22 20 TO 27 7 6 733 17 TO 22 20 TO 27 7 6 733 17 TO 22 20 TO 7 7 6 733 17 TO 22 20 TO 7 7 6 734 18 TO 23 20 TO 20 TO 7 6 735 18 TO 23 20 TO 20 TO 7 6 736 18 TO 23 20 TO 20 TO 7 6 737 18 TO 22 20 TO 10 TO 7 6 738 18 TO 23 20 TO 20 TO 7 6 739 18 TO 23 20 TO 20 TO 7 6 739 18 TO 23 20 TO 20 TO 7 6 739 18 TO 23 20 TO 20 TO 7 6 731 17 TO 22 20 TO 50 TO 6 732 17 TO 22 20 TO 50 TO 6 733 17 TO 22 20 TO 50 TO 6 734 18 TO 23 20 TO 20 TO 7 6 735 18 TO 23 20 TO 20 TO 7 6 736 18 TO 23 20 TO 20 TO 7 6 737 18 TO 23 20 TO 20 TO 7 6 738 18 TO 23 20 TO 20 TO 7 6 739 18 TO 23 20 TO 20 TO 7 6 739 18 TO 23 20 TO 20 TO 7 6 730 18 TO 23 20 TO 20 TO 7 6 731 19 TO 24 TO 25 TO 30 TO 7 6 732 17 TO 22 TO 50 TO 50 TO 6 733 17 TO 22 TO 50 TO 50 TO 6 734 18 TO 23 20 TO 20 TO 7 7 6 735 18 TO 23 20 TO 20 TO 7 7 6 736 18 TO 23 20 TO 20 TO 7 7 6 737 18 TO 23 20 TO 20 TO 7 7 6 739 18 TO 23 20 TO 20 TO 7 7 6 740 19 TO 24 44 40 TO 49 7 7 6	PATTERN	NCTES	RELATED TC	NOTES	TEST LENGTH
700 9 TO 14 23 TO 28 7 6 701 9 TO 14 35 TO 40 7 6 702 9 TO 14 554 TO 59 7 6 703 9 TO 14 66 TO 71 7 6 704 9 TO 14 88 TO 93 7 6 705 9 TO 14 108 TO 113 7 6 706 9 TO 14 113 TO 118 7 6 707 9 TO 14 113 TO 118 7 6 708 9 TO 14 154 TO 159 7 6 708 9 TO 14 154 TO 159 7 6 709 9 TO 14 190 TO 155 7 6 710 9 TO 14 237 TO 242 7 6 711 9 TO 14 237 TO 252 7 6 713 9 TO 14 237 TO 252 7 6 714 13 TO 18 18 235 TO 258 7 6 715 13 TO 18 18 18 TO 23 TO 240 7 6 718 14 TO 19 18 18 185 TO 190 7 6 719 14 TO 19 18 18 18 TO 23 TO 240 7 6 722 15 TO 20 123 TO 239 7 6 723 16 TO 21 18 18 7 6 724 16 TO 21 84 TO 18 87 6 725 16 TO 21 88 TO 239 TO 239 TO 6 727 16 TO 21 18 18 TO 18 18 TO 18 7 6 728 17 TO 22 7 6 729 17 TO 22 7 6 721 15 TO 20 18 18 7 6 722 15 TO 20 233 TO 238 7 6 723 16 TO 21 18 18 TO 18 18 7 6 724 16 TO 21 18 18 7 6 725 16 TO 21 18 84 TO 189 7 6 726 16 TO 21 18 84 TO 189 7 6 727 16 TO 21 18 84 TO 189 7 6 728 17 TO 22 7 6 729 17 TO 22 7 7 6 731 17 TO 22 7 7 6 733 17 TO 22 10 6 TO 21 17 6 TO 233 TO 238 7 6 734 18 TO 23 18 10 17 7 6 735 18 TO 21 10 17 7 6 736 18 TO 21 10 17 7 6 737 18 TO 22 10 17 7 6 738 17 TO 22 10 6 TO 11 7 7 6 739 18 TO 23 138 TO 188 7 6 737 18 TO 23 138 TO 188 7 6 737 18 TO 23 138 TO 188 7 6 737 18 TO 23 138 TO 188 7 6 737 18 TO 23 138 TO 188 7 6 737 18 TO 23 138 TO 138 7 6 738 18 TO 23 138 TO 143 7 6 739 18 TO 23 138 TO 143 7 6 739 18 TO 23 138 TO 143 7 6 739 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 739 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 739 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 18 TO 23 138 TO 143 7 6 731 19 TO 24 10 10 10 10 10 10 10 10 10 10 10 10 10	698	8 TO 13			
701 9 TO 14 35 TO 40 7 6 702 9 TO 14 54 TO 59 7 6 703 9 TO 14 66 TO 71 7 6 704 9 TO 14 88 TO 93 7 6 705 9 TO 14 108 TO 113 7 6 706 9 TO 14 113 TO 118 7 6 707 9 TO 14 113 TO 118 7 6 708 9 TO 14 155 TO 150 7 6 708 9 TO 14 155 TO 150 7 6 709 9 TO 14 190 TO 195 7 6 710 9 TO 14 190 TO 195 7 6 711 9 TO 14 237 TO 242 7 6 712 9 TO 14 237 TO 242 7 6 713 9 TO 14 253 TO 258 7 6 713 9 TO 14 253 TO 258 7 6 714 13 TO 18 258 1 TO 9 ABOVE **** **** FOR 11 TO 16 SEE 1 TO 6 ABOVE **** **** FOR 12 TO 17, SEE 4 TO 9 ABOVE **** **** FOR 14 TO 19 117 TO 122 7 6 717 14 TO 19 117 TO 122 7 6 719 14 TO 19 18 18 7 18 7 6 717 14 TO 19 23 TO 239 7 6 721 15 TO 20 233 TO 239 7 6 722 15 TO 20 233 TO 239 7 6 723 16 TO 21 84 TO 23 TO 238 7 6 724 16 TO 21 173 TO 18 8 7 6 725 16 TO 21 173 TO 18 8 7 6 726 16 TO 21 173 TO 18 8 7 6 727 16 TO 21 173 TO 18 8 7 6 728 17 TO 22 233 TO 238 7 6 729 17 TO 22 106 TO 17 7 6 731 17 TO 22 106 TO 17 7 6 733 17 TO 22 27 7 6 733 17 TO 22 27 7 6 733 17 TO 22 27 7 6 734 18 TO 23 28 TO 240 7 6 737 18 TO 22 106 TO 17 7 6 738 18 TO 23 20 TO 33 TO 238 7 6 737 18 TO 22 20 106 TO 17 7 6 738 18 TO 23 20 TO 32 TO 6 737 18 TO 22 20 106 TO 11	699				•
702 9 10 14 54 10 59 7 6 703 9 10 14 66 10 71 7 6 704 9 10 14 88 10 93 7 6 705 9 10 14 108 10 113 7 6 706 9 10 14 108 10 113 7 6 706 9 10 14 113 10 118 7 6 707 9 10 14 154 10 150 7 6 708 9 10 14 154 10 159 7 6 708 9 10 14 154 10 159 7 6 709 9 10 14 190 10 159 7 6 710 9 10 14 196 10 201 7 6 711 9 10 14 237 10 242 7 6 712 9 10 14 223 10 258 7 6 713 9 10 14 253 10 258 7 6 714 13 10 16 SEE 1 10 6 ABOVE **** 714 13 10 18 18 18 10 123 7 6 715 13 10 18 18 18 10 123 7 6 717 14 10 19 117 10 122 7 6 718 14 10 19 117 10 122 7 6 719 14 10 19 117 10 122 7 6 720 15 10 20 123 10 128 7 6 721 15 10 20 123 10 128 7 6 722 15 10 20 233 10 238 7 6 723 16 10 21 18 18 10 19 ABOVE **** 724 16 10 21 162 70 167 7 6 725 16 10 21 162 70 167 7 6 726 16 10 21 162 70 167 7 6 727 16 10 21 162 70 167 7 6 728 17 10 22 233 10 188 7 6 729 17 10 22 233 10 188 7 6 731 17 10 22 27 7 6 731 17 10 22 11 162 70 167 7 6 733 17 10 22 27 7 6 734 18 10 23 26 70 74 7 6 735 18 10 23 26 70 74 7 6 736 18 10 23 13 10 17 7 6 737 18 10 23 26 70 11 7 7 6 738 18 10 23 26 70 11 7 7 6 739 18 10 23 26 70 11 7 7 6 737 18 10 23 26 70 27 7 6 738 18 10 23 26 70 245 7 6 737 18 10 23 26 70 245 7 6 737 18 10 23 26 70 27 7 6 738 18 10 23 26 70 27 7 6 739 18 70 23 45 70 24 7 6 737 18 10 23 26 70 24 7 6 738 18 70 23 26 70 24 7 6 739 18 70 23 26 70 24 7 6 739 18 70 23 26 70 24 7 6 731 17 70 22 11 11 70					
7C3 9 TO 14 88 TO 93 7 6 7C4 9 TO 14 88 TO 93 7 6 7C5 9 TO 14 108 TO 113 7 6 7C6 9 TO 14 108 TO 113 7 6 7C6 9 TO 14 113 TO 118 7 6 7C7 9 TO 14 115 TO 150 7 6 7C8 9 TO 14 155 TO 150 7 6 7C8 9 TO 14 155 TO 150 7 6 7C9 9 TO 14 190 TO 195 7 6 710 9 TO 14 196 TO 201 7 6 711 9 TO 14 227 TO 242 7 6 712 9 TO 14 227 TO 252 7 6 713 9 TO 14 253 TO 258 7 6 **** FOR 10 TO 15. SEE 2 TO 7 ABOVE **** ***** FOR 11 TO 15. SEE 1 TO 6 ABOVE **** ***** FOR 11 TO 18 18 18 TO 123 7 6 716 13 TO 18 18 18 TO 123 7 6 717 14 TO 19 18 18 TO 19 7 6 718 14 TO 19 18 18 TO 239 7 6 719 14 TO 19 18 18 TO 239 7 6 721 15 TO 20 123 TO 18 7 6 722 15 TO 20 223 TO 238 7 6 724 16 TO 21 18 7 6 725 16 TO 21 18 7 6 726 16 TO 21 18 7 6 727 16 TO 21 18 7 6 728 17 TO 22 23 TO 228 7 6 730 17 TO 22 23 TO 228 7 6 731 17 TO 22 106 TO 177 6 732 17 TO 22 27 TO 32 7 6 733 17 TO 22 27 TO 32 7 6 734 18 TO 23 26 TO 74 ABOVE **** 729 17 TO 22 27 TO 32 7 6 730 17 TO 22 27 TO 32 7 6 731 17 TO 22 27 TO 32 7 6 732 17 TO 22 27 TO 32 7 6 733 17 TO 22 27 TO 32 7 6 734 18 TO 23 23 TO 248 7 6 735 18 TO 23 23 TO 248 7 6 736 18 TO 23 23 TO 248 7 6 737 18 TO 23 133 TO 187 7 6 738 18 TO 23 133 TO 188 7 6 737 18 TO 23 133 TO 187 7 6 738 18 TO 23 133 TO 188 7 6 737 18 TO 23 133 TO 188 7 6 738 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 737 18 TO 23 133 TO 138 7 6 738 18 TO 23 133 TO 143 7 6 738 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 731 18 TO 23 133 TO 138 7 6 738 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 731 18 TO 23 133 TO 138 7 6 731 18 TO 23 133 TO 138 7 6 732 17 TO 22 20 20 TO 7 7 6 736 18 TO 23 133 TO 138 7 6 737 18 TO 23 133 TO 138 7 6 738 18 TO 23 133 TO 138 7 6 739 18 TO 23 133 TO 138 7 6 740 19 TO 24 24 70 7 6 740 19 TO 24 24 70 7 6 740 19 TO 24 7 6 740 TO 24 7 6 740 TO 25 7 7 6 740 TO 25 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
704 9 TO 14 88 TO 93 7 6 705 9 TO 14 108 TO 113 7 6 706 9 TO 14 113 TO 118 7 6 707 9 TO 14 154 105 TO 150 7 6 708 9 TO 14 154 TO 159 7 6 708 9 TO 14 190 TO 195 7 6 709 9 TO 14 196 TO 201 7 6 710 9 TO 14 237 TO 242 7 6 711 9 TO 14 247 TO 252 7 6 712 9 TO 14 253 TO 242 7 6 713 9 TO 14 253 TO 258 7 6 713 9 TO 14 253 TO 258 7 6 714 13 TO 18 155 TO 9 ABOVE **** **** FOR 12 TO 17, SEE 4 TO 9 ABOVE **** **** FOR 12 TO 17, SEE 4 TO 9 ABOVE **** 714 13 TO 18 185 TO 190 7 6 715 13 TO 18 185 TO 190 7 6 717 14 TO 19 127 TO 122 7 6 718 14 TO 19 127 TO 122 7 6 721 15 TO 20 183 TO 188 7 6 722 15 TO 20 233 TO 238 7 6 723 16 TO 21 84 TO 239 7 6 724 16 TO 21 84 TO 239 7 6 725 16 TO 21 84 TO 89 7 6 726 16 TO 21 162 TO 167 7 6 727 16 TO 21 162 TO 167 7 6 728 17 TO 22 233 TO 228 7 6 729 17 TO 22 233 TO 228 7 6 730 17 TO 22 233 TO 228 7 6 731 17 TO 22 233 TO 228 7 6 732 17 TO 22 233 TO 228 7 6 733 17 TO 22 233 TO 228 7 6 734 18 TO 23 22 27 TO 32 7 6 735 18 TO 23 23 TO 240 7 6 737 18 TO 22 20 106 TO 117 7 6 733 17 TO 22 20 106 TO 17 7 6 734 18 TO 23 22 27 TO 32 7 6 735 18 TO 23 23 TO 248 7 6 737 18 TO 22 20 3 TO 208 7 6 738 18 TO 23 133 TO 138 7 6 737 18 TO 23 133 TO 138 7 6 738 18 TO 23 133 TO 138 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 208 7 6 739 18 TO 23 23 TO 208 7 6 739 18 TO 23 23 TO 208 7 6 739 18 TO 23 23 TO 240 7 6 731 17 TO 22 20 TO 37 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 248 7 6 739 18 TO 23 23 TO 208 7 6 739 18 TO 23 23 TO 248 7 6 740 19 TO 24 24 77 7 7 6 740 19 TO 24 24 77 7 7 6 740 19 TO 24 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
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706					
7C7 9 TO 14 145 TO 150 7 6 708 9 TO 14 154 TO 159 7 6 7C9 9 TO 14 196 TO 201 7 6 710 9 TO 14 297 TO 242 7 6 711 9 TO 14 2247 TO 252 7 6 712 9 TO 14 2253 TO 242 7 6 713 9 TO 14 2253 TO 258 7 6 713 9 TO 14 253 TO 258 7 6 713 9 TO 14 253 TO 258 7 6 713 1 TO 15					
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740 19 TO 24 25 TO 30 7 6 741 19 TO 24 44 TO 49 7 6					
741 19 TO 24 44 TO 49 7 6					7 6
	742	19 10 24		93 TO 98	7 6

PATTERN	NCTES	RELATE	T 0	NOT	ES	TEST	LENGTH
743	19 TO	24		132 TO	137	7	6
744	19 TO	24		239 TO	244	7	6
**** FCR	19 TO		SEE	19 TO	24	ABOVE ***	_
745	20 TO	25		43 TO	48	7	6
746	20 TO	25		92 TO	97	7	6
747	20 TO	25		131 TO	136	7	6
748	20 TO	25		135 TO	140	7	6
749	20 TO	25		197 TO	202	7	6
750	20 TO	25		238 TO	243	7	6
751	20 TO	25		254 TO	259	7	6
**** FOR	21 TO		SEE	9 TO	14	ABOVE ***	_
**** FCR	22 TO		SEE	2 T O	7	ABOVE ***	-
**** FOR	23 TO		SEE	17 TO	22	ABOVE ***	**
**** FGR	24 TO		SEE	18 TO	23	ABOVE ***	· •
**** FOR	25 TO		SEE	19 TO	24	ABOVE ***	*
**** FCR	26 TO		SEE	20 TO	25	ABOVE ***	*
**** FCR	27 10		SEE	9 TO	14	ABOVE ***	· ·
**** FCR	34 TO		SEF	2 TO	7	ABOVE ***	
**** FOR	35 TO		SEE	17 10	22	ABOVE ***	_
752 753	36 TO	41		41 TO 56 TO	46	7	6
753 754	36 TO	41			61 73	7	6
754 755	36 TO 36 TO	41		68 TO 90 TO	95	7	6 6
755 754		41		110 TO	115	7	6
756 757	36 TO 36 TO	41		129 TO	134	7	6
757 758	36 TO	41		147 TO	152	7	6
759	36 TO	41		156 TO	161	7	6
**** FOR	39 TO		SEE	6 TO	11	ABOVE ***	:*
**** FOR	40 TO		SEE	7 TO	12	ABOVE ***	*
**** FOR	41 TO		SEE	8 TO	13	ABOVE ***	
760	42 TO	47	,	57 TO	62	7	6
761	42 TO	47		91 TO	96	7	6
762	42 TO	47		130 TO	135	7	6
763	42 TO	47		134 TO	139	7	6
764	42 TO	47		139 TO	144	7	6
765	42 TO	47		148 TO	153	7	6
766	42 TO	47		241 TO	246	7	6
**** FOR	43 TO		SEE	18 TO	23	ABOVE ***	*
**** FOR	44 TO		SEE	19 TO	24	ABOVE ***	*
**** FCR	45 TO	50.	SEE	20 TO	25	ABOVE ***	*
**** FOR	46 TO	51.	SEE	42 TO	47	ABOVE ***	*
**** FOR	47 TO	52.	SEE	36 TO	41	AROVE ***	*
767	50 TO	55		85 TO	90	7	6
768	50 TO	55		120 TO	125	7	6
769	50 TO	55		163 TO	168	7	6
770	50 TO	55		174 TO	179	7	6
771	50 TO	55		187 TO	192	7	6
772	50 TO	55		224 TO	229	7	6
773	50 TO	55		227 TO	232	7	6
774	50 TO	55		230 TO	235	7	. 6
**** FCR	51 TO	56.	SEE	16 TO	21	ABOVE ***	:

PATTERN	NCTES	RELATED T	O NOTES	TEST LFNGT	Н
**** FCR	52 TO	57. SEE	1 TO 6	ABOVE ****	
**** FGR	53 TO	58. SEE	2 TO 7	ABOVE ****	
**** FOR	54 TO	59. SEE	17 TO 22	ABOVE ****	
4*** FGR	55 TO	60. SEE	36 TO 41	ABOVE ****	
**** FOR	56 TO	61. SEE	8 TO 13	ABOVE ****	
**** FOR	57 10	62. SEE	42 TO 47	ABOVE ****	
**** FCR	58 TO	63. SEE	36 TO 41	ABOVE ****	
775 774	63 TO 64 TO	68 69	211 TO 216 210 TO 215	7 6 7 6	
776 777	65 TO	70	167 TO 172	7 6	
**** FOR	66 TO	71. SEE		ABOVE ****	
**** FCR	67 TO	72. SEE	36 TO 41	ABOVE ****	
**** FCR	68 TO	73. SEE	8 TO 13	ABOVE ****	
**** FOR	69 TO	74, SEE	9 TO 14	ABOVE ****	
**** FOR	70 TO	75. SEE	2 TO 7	ABOVE ****	
**** FOR	82 TO	87. SEE	2 TO 7	ABOVE ****	
**** FOR	83 TO	88. SEE	1 TO 6		
**** FCR	84 TO	89. SEE	4 TO 9	ABOVE ***	
**** FCR	85 TO	90. SFE	5 TO 10	ABOVE ***	
**** FOR	86 TO	91. SEE	50 TO 55	ABOVE ****	
**** FOR	87 TO	92. SEE	16 TO 21 17 TO 22	ABOVE **** ABOVE ****	
**** FOR **** FCR	88 TO 89 TO	93. SEF 94. SEF	17 TO 22 36 TO 41	ABOVE ***	
**** FCR	90 TO	95. SEE	8 TO 13	ABOVE ****	
**** FGR	90 TO	96. SEE	42 TO 47	ABOVE ****	
**** FOR	92 TO	97. SEE	18 TO 23	ABOVE ****	
**** FOR	93 TO	98. SEE	19 TO 24	ABOVE ****	
**** FCR		111, SEE	9 TO 14	ABOVE ****	
**** FCR		112. SEE	2 TO 7	ABOVE ****	
**** FCR	108 TO	113. SEE	17 TO 22	ABOVE ****	
**** FOR		114. SEE	36 TO 41	ABOVE ***	
**** FOR		115. SEE	8 TO 13		
**** FOR		116. SEE		ABOVE ****	
**** FCR		117. SEE		ABOVE ****	
**** FOR **** FOR		118. SEF 119. SEE	17 TO 22 36 TO 41	ABOVE **** ABOVE ****	
**** FOR		122. SEE	14 TO 19		
**** FOR	-	123. SEE	15 TO 20	ABOVE ****	
778		124	186 TO 191	7 6	
179		124	226 TO 231	7 6	
78 C		124	229 TO 234	7 6	
781		124	232 TO 237	7 6	
**** FOR	120 TO	125. SEE	5 TO 10	ABOVE ****	
**** FOR		126. SEE	50 TO 55		
**** FOR		127. SEE		ABOVE ****	
**** FOR		128, SEE		ABOVE ***	
**** FCR		134. SEF		ABOVE ****	
**** FOR		135. SEE		ABOVE **** ABOVE ****	
**** FOR **** FOR		136. SEE 137. SEE	18 TO 23 19 TO 24		
**** FCR		138. SEE	20 TO 25		
TTTT FUR	10	1304 366	20 10 27	HINDAC ALLA	

PATT	ERN	ı	NCTE	S	RELATED	TC	N	IOTE	S	TES	S T	LENGT	Н
****	FCR	134	TO	139.	SE	E	42	TO	47	ABOVE			
****	FOR	135	TO	140.	SE	EE	18	TO	23	ABOVE		**	
78		136	TO	141			201	TO	206		7	6	
78:		137	TO	142			98	TO	203		7	6	
784		137	TO	142			255	TO	260		7	6	
****		137	TO	142.			37	10	142				
****	FCR	138	TO	143.		E	20	TO	25	ABOVE			
****	FCR	139	TO	144.		E	42	TO	47	ABOVE			
****	FOR	140	TO	145.		E	36	TO	41	ABOVE	**		
****	FOR	143	TO	148.		E	50	TO	55	ABOVE	**		
****	FGR	144	TO	149,		E	16	TO	21	ABOVE	**		
****	FOR	145	TO	150.		E		TO	22	ABOVE			
****	FOR	146	TO	151.			36 8	TO TO	41 13	ABOVE ABOVE			
****	FOR	147	TO	152.			42	TO	47	ABOVE	**		
	FOR	148	TO	153.			36	TO	41	ABOVE			
****	FOR FOR	149 152	TO TO	154. 157.		E E	50	מד	55	ABOVE			
****	FOR	153	TO	158,		E	16	TO	21	ABOVE			
****	FOR	154	TO	159		E	17	TO	22	ABOVE			
****	FOR	155	TO	160.		E	36	TO	41	ABOVE	**		
****	FOR	156	TO	161.		E	8	TO	13	ABOVE	**		
****	FOR	157	TO	162.		E	9	TO	14	ABOVE	**:		
****	FOR	162	TO	167.		E	4	TO	9	ABOVE	**		
****	FOR	163	TO	168.		E	5	TO	10	ABOVE			
****	FOR	164	TO	169,		E	50	TO	55	ABOVE	**		
****	FOR	165	TO	170.		E	16	TO	21	ABOVE	**		
****	FOR	166	TO	171.		E	ĩ	το	6	ABOVE			
****	FOR	171	TO	176.			65		70	ABOVE			
****	FGR	172	TO	177,		E	1	TO	6	ABOVE	**	**	
****	FCR	173	TO	178.		E	4	TO	9	ABOVE	**	**	
****	FOR	174		179.		E		TO	_	ABOVE	**	* *	
****		175		180		E	50			ABOVE	**	**	
****		176	TO	181.		E	16	TO	21	ABOVE	**	**	
789		177	TO	182				TO	218	•	7	6	
786		177	TO	182				TO	227		7	6	
787	7	181	TO	186		2	205	TO	210	•	7	6	
788	3	181	TO	186		2	15	TO	220	•	7	6	
****	FOR	182	TO	187.	SE	E	4	TO	9	ABOVE	**	**	
****	FOR	183	TO	188.	SE	E	13	TO	18	ABOVE			
****	FOR	184	TO	189.	SE	E	14	TO	19	ABOVE	**	**	
****	FCR	185	TO	190.	SE			TO		ABOVE			
****	FCR	186	TO	191.	SE	EE 1	19	TO	124	ABOVE			
****	FOR	187	TO	192.		E		TO	10				
****		188	TO	193.		E	50			ABOVE			
****		189	TO	194.		E	16		21				
***		190	TO	195.		E	17			ABOVE			
****	FCR	191	TO	196.		E		TO	41	ABOVE			
****	FCR	194	TO	199.		F		TO	55	AROVE			
****		195	TO	200•		E		TO	21	ABOVE	**		
****		196	TO	201		E	17		22				
****	FCR	157	TO	202.	SE	E	18	TO	23	ABOVE	**	F 4	

**** FOR 198 TO 203. ***** FOR 201 TO 206. ***** FOR 201 TO 206. ***** FOR 203 TO 208. ***** FOR 204 TO 209. ***** FOR 205 TO 210. ***** FOR 205 TO 210. ***** FOR 206 TO 211. **** FOR 207 TO 212. ***** FOR 208 TO 213. ***** FOR 208 TO 213. ***** FOR 208 TO 213. ***** FOR 213 TO 218. ***** FOR 216 TO 221. ***** FOR 222 TO 227. ***** FOR 223 TO 228. ***** FOR 224 TO 229. ***** FOR 225 TO 230. ***** FOR 225 TO 230. ***** FOR 227 TO 232. ***** FOR 228 TO 231. ***** FOR 228 TO 231. ***** FOR 228 TO 233. ***** FOR 228 TO 234. ***** FOR 228 TO 234. ***** FOR 229 TO 234. ***** FOR 220 TO 237. ***** FOR 221 TO 236. ***** FOR 221 TO 237. ***** FOR 221 TO 237. ***** FOR 221 TO 237. ***** FOR 231 TO 236. ***** FOR 231 TO 236. ***** FOR 231 TO 236. ***** FOR 231 TO 238. ***** FOR 231 TO 238. ***** FOR 231 TO 238. **** FOR 231 TO 236. ***** FOR 236 TO 241. ***** FOR 241 TO 242. ***** FOR 242 TO 247. ***** FOR 243 TO 244. ***** FOR 244 TO 247. ***** FOR 246 TO 251. **	PATT	ERN	f	NOTE	S	RELATED TC	•	OTE	S	TES	S T	LE	NG TH
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*** FOR 245 TO 250. SEE 50 TO 55 ABOVE **** *** FOR 246 TO 251. SEF 16 TO 21 ABOVE **** *** FOR 247 TO 252. SEE 17 TO 22 ABOVE **** *** FOR 248 TO 253. SEE 36 TO 41 ABOVE **** *** FOR 251 TO 256. SEE 50 TO 55 ABOVE **** *** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** *** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****													
*** FCR 246 TO 251. SEF 16 TO 21 ABOVE **** *** FOR 247 TO 252. SEE 17 TO 22 ABOVE **** *** FOR 248 TO 253. SEE 36 TO 41 ABOVE **** *** FOR 251 TO 256. SEE 50 TO 55 ABOVE **** *** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** *** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****													
*** FOR 247 TO 252. SEE 17 TO 22 ABOVE **** *** FOR 248 TO 253. SEE 36 TO 41 ABOVE **** *** FOR 251 TO 256. SEE 50 TO 55 ABOVE **** *** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** *** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****													
**** FOR 248 TO 253. SEE 36 TO 41 ABOVE **** **** FOR 251 TO 256. SEE 50 TO 55 ABOVE **** **** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** **** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****													
*** FOR 251 TO 256. SEE 50 TO 55 ABOVE **** *** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** *** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****		-											
**** FOR 252 TO 257. SEE 16 TO 21 ABOVE **** **** FOR 253 TO 258. SEF 17 TO 22 ABOVE ****													
**** FOR 253 TO 258, SEF 17 TO 22 ABOVE ****													
**** FCR 254 TO 259. SEE 18 TO 23 ABOVE ****	****	FOR			258								
	****	FCR	254	TO	259	SEE	18	TO	23	ABOVE	**	**	

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 699 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENG TH
79C 751	1 TO 7		10 TO 16 28 TO 34	7 7	7 7
792	1 10 7		30 TO 36	7	7
793	1 TO 7		32 TO 38	7	7
794 795	1 TO 7 1 TO 7		70 TO 76 72 TO 78	7	7
796	1 TO 7		72 TO 78 74 TO 80	7 7	7 7
757	1 70 7		76 TO 82	7	7
758	1 70 7		78 TO 84	7	7
799	1 TO 7		80 TO 86	7	7
800	1 10 7		82 TO 88	7	7
8C1	1 TO 7		158 TO 164	7	7
8C2	1 TO 7		160 TO 166	7	7
8C3	2 TO 8		29 TO 35	7	7
8C4	2 TO 8		31 TO 37	7	7
8C5	2 TO 8		33 TO 39	7	7
806	2 10 8		52 TO 58	7	7
8C7	2 TO 8		71 TO 77	7	7
808	2 10 8		73 TO 79	7	7
809	2 10 8		75 TO 81	7	7
810	2 TO 8 2 TO 8		77 TO 83 79 TO 85	7	7
811 812	2 TO 8 2 TO 8		79 TO 85 81 TO 87	7 7	7 7
813	2 10 8		159 TO 165	7	7
814	4 TO 10		50 TO 56	7	7
815	4 TO 10		86 TO 92	7	7
816	4 TO 10		143 TO 149	7	7
817	4 TO 10		152 TO 158	7	7
818	4 TO 10		164 TO 170	7	7
819	4 TO 10		175 TO 181	7	7
820	4 10 10		188 TO 194	7	7
821	4 TO 10		194 TO 200	7	7
822	4 TO 10		245 TO 251	7	7
823	4 TO 10		251 TO 257	7	7
824	5 TO 11		49 TO 55	7	7
825	5 70 11		142 TO 148	7	7
826	5 70 11		151 TO 157	7	7
827	5 TO 11		193 TO 199	7	7
828	5 TO 11 5 TO 11		244 TO 250	7	7
829 83 <i>C</i>	5 TO 11 6 TO 12		250 TO 256 37 TO 43	7 7	7 7
83C 831	6 TO 12		48 TO 54	7	7
832	6 10 12		59 TO 65	7	7
833	6 TO 12		141 TO 147	7	7
				•	•

PATTERN	NCTES		RELATED	TC	f	NOTE	S	TEST	LENGTH
834	6 TO	12			150	TO	156	7	7
835	6 TO	12			192	TO	198	7	7
836	6 TO	12			243	TO	249	7	7
837	6 TO	12			249	TO	255	7	7
838	7 TO	13			36	TO	42	7	7
839	7 TO	13			47	TO	53	7	7
840	7 TO	13			58	TO	64	7	7
841	7 TO	13			114	TO	12C	7	7
842	7 10	13			140	TO	146	7	7
843	7 10	13			149	TO	155	7	7
844	7 TO	13			191	TO	197	7	7
845	7 TO	13			242	TO	248	7	7
846	7 10	13			248	TO	254	7	7
847	8 TO	14			35	TO	41	7	7
848	8 TO	14			54	TO	60	7	7
849	8 TO	14			66	TO	72	7	7
850	8 TO	14			88	TO	94	7	7
851	8 TO	14			108	TO	114	7	7 7
852	8 TO	14			113	TO	119	7 7	7
853	8 TO	14			145	TO	151		
P54	8 TO	14			154	TO TO	160	7 7	7 7
855 854	8 TO 8 TO	14			190 247	TO	196 253	7	7
856 857	9 TO	14 15			22	TO	28	7	7
857 858	9 TO				34	TO	40	7	7
858	9 TO	15 15			53	TO	59	7	7
859 860	9 TO	15			107	TO	113	7	7
861	9 TO	15			112	TO	118	7	7
862	13 TO	19			117	τn	123	7	7
863	13 TO	19			184	TO	190	7	7
864	13 TO	19			234		240	7	7
£65	14 TO	20			183		189	7	7
866	14 TO	20			233	TO	239	7	7
867	15 TO	21			182	TO	188	7	7
868	17 TO	23			26	TO	32	7	7
869	17 TO	23			202	TO	268	7	7
87C	18 TO	24			25	TO	31	7	7
871	18 TO	24			44	TO	50	7	7
872	18 TO	24			132	10	138	7	7
873	18 TO	24			239	TO	245	7	7
874	19 TO	25			43	TO	49	7	7
87 5	19 TO	25			92	TO	98	7	7
876	19 TO	25			131	TO	137	7	7
877	19 TO	25			238	TO	244	7	7
878	20 TO	26			196	TO	202	7	7
879	20 TO	26			237	TO	243	7	7
880	20 TO	26			253	TO	259	7	7
881	42 TO	48			133	TO	139	7	7
882	42 TO	48			138	TO	144	7	7
883	42 TO	48			240	TO	246	7	7 7
884	50 TO	56			84	TO	90	7	•

PATTERN	NOTE	S	RELATED	TO	NOTE	S	TEST	LENGTH
885	50 TO	56			162 TO	168	7	7
886	50 TO	56			173 TO	179	7	7
887	50 TO	56			223 TO	229	7	7
888	63 TO	69			210 TO	216	7	7
889	119 TO	125			225 TO	231	7	7
890	119 TO	125			228 TO	234	7	7
891	119 TO	125			231 TO	237	7	7
892	137 TO	143			197 TO	203	7	7
853	127 TO	143			254 TO	260	7	7

SEARCH FCR PATTERNS OF 8 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 724 SECONDS INTO EXECUTION.

PATTERN	NCTES		RELATED	TO	١	IOTE	S	TEST	LENGTH
894	1 TO 1 TO	8			29 31	T0 T0	36 38	7 7	8 8
895 896	1 TO	8 8			71	TO	78	7	8
857	1 TO	8			73	TO	80	7	8
898	1 10	8			75	TO	82	7	8
899	1 10	8			77	TO	84	7	8
900	1 10	8			79	TO	86	7	8
961	1 TO	8			81	TO	88	7	8
902	1 TO	8			159	TO	166	7	8
903	2 T O	9			51	TO	58	7	8
904	4 TO	11			49	TO	56	7	8
905	4 TO	11			142	TO	149	7	8
906	4 TO	11			151	TO	158	7	8
907	4 TO	11			193	TO	200	7	8
908	4 10	11			244	TO	251	7	8
909	4 TO	11			250	TO	257	7	8
910	5 TO	12			48 141	TO TO	55 148	7 7	8 8
911	5 TO 5 TO	12 12			150	TO	157	7	8
912 913	5 TO	12			192	TO	199	7	8
913	5 TO	12			243	TO	250	7	8
915	5 TO	12			249	TO	256	7	8
916	6 TO	13			36	TO	43	7	8
917	6 TO	13			47	TO	54	7	8
918	6 TO	13			58	TO	65	7	8
919	6 TO	13			140	TO	147	7	8
920	6 TO	13			149	TO	156	7	8
921	6 TO	13			191	TO	198	7	8
922	6 TO	13			242	TO	249	7	8
923	6 TO	13				TO	255	7	8
924	7 10	14			35	TO	42	7	8
925	7 TO	14			113	TO	120	7	8
926	7 TO	14			190	TO	197	7	8
927	7 TO	14			247 34	TO TO	254	7 7	8 8
928	8 TO	15			53	TO	41 60	7	8
529	8 TO 8 TO	15 15			107	TO	114	7	8
930 931	8 TO	15			112	TO	119	7	8
932	9 TO	16			33	TO	40	7	8
933	9 10	16			52	TO	59	7	8
934	13 TO	20			183	TO	190	7	8
935	13 TO	20			233	TO	240	7	8
936	14 TO	21			182	TO	189	7	8
937	17 TO	24			25	TO	32	7	8

PATTERN	NCT	ES	RELATED	TC	NOTE	S	TEST	LENGTH
938	18 TO	25			43 TO	50	7	8
939	18 TO	25			131 TO	138	7	8
940	18 TO	25			238 TO	245	7	8
941	19 TO	26			237 TO	244	7	8
942	42 TO	49			132 TO	139	7	8
943	42 TO	49			239 TO	246	7	8
944	50 TO	57			83 T O	90	7	8
945	50 TO	57			161 TO	168	7	8
946	50 TO	57			172 TO	179	7	8
947	119 TO	126			224 TO	231	7	8
948	119 TO	126			227 TO	234	7	8
949	119 TO	126			230 TO	237	7	8
950	199 TO	206			255 TO	262	7	8

SEARCH FOR PATTERNS CF 9 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 745 SECONDS INTO EXECUTION.

PATTERN	NO	TES	RELATED	TC	ľ	NOTE	S	TEST	LENGTH
951	2 T	0 10			50	TO	58	7	9
952	4 T	0 12			48	TO	56	7	9
953	4 T				141	TO	149	7	9
954	4 T				150	TO	158	7	9
955	4 T	0 12			192	TO	200	7	9
956	4 T	0 12			243	TO	251	7	9
957	4 T	0 12			249	TO	257	7	9
958	5 T	0 13			47	TO	55	7	9
959	5 T	0 13			140	TO	148	7	9
960	5 T	0 13			149	TO	157	7	9
961	5 T	0 13			191	TO	199	7	9
962	5 T	0 13			242	TO	250	7	9
963	5 T	0 13			248	TO	256	7	9
964	6 T	0 14			35	TO	43	7	9
965	6 T	0 14			190	TO	198	7	9
96 6	6 T				247	TO	255	7	9
967	7 1	0 15			34	TO	42	7	9
568	7 T	0 15			112	TO	120	7	9
969	8 T	0 16			33	TO	41	7	9
970	8 T	0 16			5 <i>2</i>	TO	60	7	9
971	9 T	0 17			51	TO	59	7	9
972	13 T	21			182	TO	190	7	9
973	18 T	0 26			237	TO	245	7	9
974	42 1	50			131	TO	139	7	9
975	42 T	50			238	TO	246	7	9
576	50 T	58			82	TO	90	7	9
577	50 T				160	TO	168	7	9
978	119 T				226	TO	234	7	9
979	119 T	127			229	TO	237	7	9
980	159 T	207			254	TO	262	7	9

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SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 764 SECONDS INTO EXECUTION.

PATTERN	ľ	NCTE	S	RELATED	TC	N	OTE	S	TEST	LENGTH
581	2	TO	11			49	TO	58	7	10
982	4	TO	13			47	TO	56	7	10
983	4	TO	13			140	TO	149	7	10
584	4	TO	13			149	TO	158	7	10
985	4	TO	13			191	TO	200	7	10
986	4	TO	13			242	TO	251	7	10
587	4	TO	13			248	TO	257	7	10
588	5	TO	14			190	TO	199	7	10
989	5	TO	14			247	TO	256	7	10
990	6	TO	15			34	TO	43	7	10
991	7	TO	16			33	TO	42	7	10
992	8	TO	17			51	TO	60	7	10
993	42	TO	51			130	TO	139	7	10
594	199	TO	208			253	TO	262	7	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 781 SECONDS INTO EXECUTION.

PATTERN	ì	NOTES		RELATED TO		NOTES			TEST	LENGTH	
995	2	TO	12			48	TO	58	7	11	
996	4	TO	14			190	TO	200	7	11	
997	4	TO	14			247	TO	257	7	11	
558	6	TO	16			33	TO	43	7	11	
999	42	TO	52			129	TO	139	7	11	

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 797 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TC	NOTES		TEST	LENGTH
1600	2 TO	13		47 TO	58	7	12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -TONAL RET. INVERSION WAS BEGUN AT 813 SECONDS INTO EXECUTION.

PATTERN NCTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 1000 PATTERNS LOCATED.

*** TYPE II LISTING ***

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE TONAL RET. INVERSION

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL PATTERN	2 TO 13	2	12
SUBPATTERN	4 TO 13	7	10
SUPPATTERN	5 TO 13	7	9
SUBPATTERN	4 TO 12	7	9
SUBPATTERN	6 TO 13	9	8
SUBPATTERN	5 TO 12	7	8
SLBPATTERN	4 TO 11	7	8
SUBPATTERN	7 TO 13	10	7
SUPPATTERN	6 TO 12	9	7
SUBPATTERN	5 TO 11	7	7
SUBPATTERN	4 TO 10	11	7
SLEPATTERN	2 TO 8	12	7
SUBPATTERN	8 TO 13	16	6
SUBPATTERN	7 TO 12	10	6
SUBPATTERN	6 TO 11	9	6
SUBPATTERN	5 TO 10	15	6
SUPPATTERN	4 TO 9	13	6
SUPPATTERN	2 TO 7	21	6
SUBPATTERN	9 TO 13	25	5
SUBPATTERN	8 TO 12	18	5
SUBPATTERN	7 TO 11	10	5
SUPPATTERN	6 TO 10	17	5
SUEPATTERN	5 TO 9	20	5
SUBPATTERN	2 TO 6	35	5
SUBPATTERN	9 TO 12	27	4
SUPPATTERN	8 TO 11	27	4
SUBPATTERN	7 TO 10	22	4
SUBPATTERN	6 TC 9	22	4
SUBPATTERN	2 TO 5	55	4
SUBPATTERN	2 TO 4	82	3

^{****} TEST 7 COMPLETED AT 1000 SECONDS INTO EXECUTION ****

++++++++++ MUSIC MELODIC PATTERN ANALYSIS *********

EDGARD VARESE DENSITY 21.5 FOR SOLO FLUTE

TEST REQUESTED 8
UNITS OF DATA PER CARD 15

CCMPLTER REFERENCE NUMBER ASSIGNMENT

NCTES	1 TH	ROUG	Н	15									
55	54 56	51	56	51	57	55	54	56	57	51	57	56	57
NCTES	16 TH	RCUG	Н	30									
56	54 51	57	51	57	59	60	57	60	57	60	62	63	62
	31 TH												
63	62 63	62	63	62	63	62	64	70	64	58	64	70	53
	46 TH												
59	65 71	59	72	78	66	65	67	65	67	65	66	68	55
	61 TH												
56	81 61	60	61	61	59	61	58	61	75	74	75	74	75
	76 TH												
74	75 74	75	74	75	74	75	74	75	74	76	61	60	61
16756	0.3 74												
	91 TH				76	7.	-,	3 ,	• •		<i>-,</i>	. .	e ,
2.9	60 61	59	60	14	75	14	74	14	54	21	54	51	51
ACTEC	104 711	0000		20									
51	106 TH				52	5 0	5 /.	5 0	5 2	4.5	0.1	00	68
31	34 64	21	04	21	36	20	24	20	22	67	01	80	00
MOTES	121 TH	PCHG	u 1	25									
67	81 80				68	67	67	57	6.8	69	56	57	5.8
•			01	00	00	0.	•	7.	00	0,	70	<i>J</i> •	70
NCTES	136 TH	ROUG	н 1	50									
59	54 6C				73	80	83	80	73	83	73	80	83
			• •		•••		0,5	•	• •		• •		0,5
NCTES	151 TH	ROUG	H 1	65									
73	80 83				73	80	83	80	83	80	83	80	83
			•••		•••		-						
NCTES	166 TH	RCUG	H 1	.80									
8 C	73 74	65	74	65	65	64	65	63	65	64	63	65	63
NCTES	181 TH	RCUG	H 1	95									
64	64 65	63	65	61	56	55	57	56	55	57	55	56	57

NCTES 196 THROUGH 210 56 55 57 52 58 59 66 72 75 90 85 88 85 88 88 NCTES 211 THRCUGH 225 88 85 88 88 58 58 58 **85 88 85 85 88 85** 59 57 NCTES 226 THROUGH 240 74 68 67 74 68 67 74 68 67 74 54 52 51 54 51 NOTES 241 THROUGH 255 54 56 57 54 57 71 60 54 60 50 54 64 54 50 64 NCTES 256 THRCUGH 265 50 54 60 64 68 75 77 79 85 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FRCM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

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*** TYPE I LISTING ***

FDGARD VARESE

DENSITY 21.5 FCR SOLO FLUTE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -EXACT RET. INVERSION WAS BEGUN AT 27 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELAT	ED TO	NOTE	S	TEST	LENGTH
1	1 TO	3		175 TO	177	8	3
2	1 TO	3		188 TO	190	8	3
3	7 TO	9	655	15 TO	17	8	3
**** FOR	8 TO	10.	SEE	1 TO	3	ABOVE ***	
4	9 TO	11		57 TO 18 TO	59 20	8 8	3
5	11 TO 11 TO	13 13		39 TO	41	8	3 3
6 7	11 TO	15		28 TO	30	8	2
8	13 TO	15		30 TO	32	8	3 3
9	13 70	15		32 TO	34	8	3
10	13 TO	15		34 TO	36	8	3
11	13 10	15		36 TO	38	8	3 3 3
12	13 TO	15		72 TO	74	8	3
13	13 TO	15		74 TO	76	8	3
14	13 TO	15		76 TO	78	8	3
15	13 TO	15		78 TO	80	8	3
16	13 10	15		80 TO	82	8	3
17	13 TO	15		82 TO	84	8	3
18	13 TO	15		84 TO	86	8	3
19	13 TO	15		96 TO	98	8	3
20	13 TO	15		194 TO	196	8	3
21	14 TO	16		29 TO	31	8	3
22	14 TO	16		31 TO	33	8	3
23	14 TO	16		33 TO	35	8	3
24	14 70	16		35 TO	37	8	3 3
25	14 TO	16		63 TO	65	8	3
26	14 TO	16		71 TO	73	8	3
27	14 TO	16		73 TO	75	8	3
28	14 TO	16		75 TO	77	8	3
29	14 TO	16		77 TO	79	8	3
30	14 TO	16		79 TO	81	8	3
31	14 TO	16		81 TO	83	8	3
32	14 TO	16		83 TO	85	8	3
33	14 TO	16		88 TO	90	8	3
34	14 TO	16		172 TO	174	8	3
35	15 TO	17		236 TO	238	8	3
36	18 TO	20		41 TO	43	8	3
37	18 TO	20		247 10	249	8	3
**** FOR	19 TO	21.	SEE	11 TO	13	ABOVE ***	*
38	20 TO	22		38 TO	40	8	3
39	20 TO	22		262 TO	264	8	. 3
**** FOR	21 TO	23.	SEE	9 10	11	ABOVE ***	*

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
40	23 TO 25		102 TO 104	8 3
41	23 TO 25 23 TO 25		143 TO 145 152 TO 154	8 3 8 3
42 43	23 TO 25 23 TO 25		158 TO 160	8 3
44	23 TO 25		160 TO 162	8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3
45	23 TO 25		162 TO 164	8 3
46	23 TO 25		164 TO 166	8 3
47	23 TO 25		206 TO 208	8 3
48	23 TO 25		211 TO 213	8 3
49	23 TO 25		214 TO 216	8 3
50	23 TO 25		216 TO 218 238 TO 240	8 3 8 3
51 52	23 TO 25 24 TO 26		68 TO 70	8 3
53	24 TO 26		101 TO 103	8 3
54	24 TO 26		159 TO 161	8 3
55	24 TO 26		161 TO 163	8 3
56	24 TO 26		163 TO 165	8 3
57	24 TO 26		207 TO 209	8 3
58	24 10 26		210 TO 212	8 3
59	24 TO 26		215 TO 217	8 3
60	24 TO 26		217 TO 219	8 3
61	24 TO 26		239 TO 241 243 TO 245	8 3 8 3
62 **** FOR	24 TO 26 25 TO 27	• SEE	23 TO 25	ABOVE ***
**** FOR	27 TO 29		9 TO 11	ABOVE ***
**** FCR	28 TO 30		14 TO 16	ABOVE ****
**** FOR	29 TO 31		13 TO 15	ABOVE ****
**** FGR	30 TO 32		14 TO 16	ABOVE ***
**** FOR	31 TO 33	SEE	13 TO 15	ABOVE ****
**** FOR	32 TO 34		14 TO 16	ABOVE ***
**** FOR	33 TO 35			ABOVE ****
*** FOR	34 TO 36			ABOVE ***
**** FOR	35 TO 37			ABOVE **** ABOVE ****
**** FOR **** FOR	36 TO 38 37 TO 39			ABOVE ****
**** FOR	39 TO 41		18 TO 20	
**** FOR	41 TO 43		11 TO 13	
63	42 TO 44		45 TO 47	
64	42 TO 44		46 TO 48	8 3
**** FOR	45 TO 47			ABOVE ****
**** FOR	46 TO 48		42 TO 44	
65	51 10 53		118 TO 120	8 3
66	51 TO 53		122 TO 124	
67 +*** FCR	51 TO 53 52 TO 54		125 TO 127	
68	53 TO 55	• 3E.L	66 TO 68	8 3
69	53 TO 55		174 TO 176	
70	53 TO 55		183 TO 185	
71	54 TO 56		178 TO 180	
72	54 TO 56		191 TO 193	8 3
**** FOR	55 TG 57	• SEE	53 TO 55	ABOVE ****

PATTERN	NCTE	S RE	LATED TO	NOTE	S	TEST	LENGTH
73	56 TO	58		89 TO	91	8	3
74	56 TO	58		92 TO	94	8	3
75	56 TO	58		173 TO	175	8	3
76	56 TO	58		182 TO	184	8	3
77	56 TO	58		223 TO	225	8	3
78	57 TO	59		241 TO	243	8	3
79	59 TG	61		131 TO	133	8	3
**** FOR	63 TO	65.	SEE	13 TO	15	ABOVE ***	k 4 k
80	64 TO	66		181 TO	183	8	3
81	64 TO	66		222 TO	224	8	3
**** FCR	66 TO	68,	SEE	54 TO	56	ABOVE ***	
**** FCR	68 TO	70.	SEE	23 TO	25	ABOVE ***	
82	70 TO	72		120 TO	122	8	3
**** FOR	71 TO	73.	SEE	13 TO	15	ABOVE ***	
**** FCR	72 TO	74.	SEE	14 TO	16	ABOVE ***	
**** FOR	73 TO	75.	SEE	13 TO	15	ABOVE ***	
**** FOR	74 TO	76.	SEE	14 TO	16	ABOVE ***	
**** FOR	75 TO	77.	SEE	13 TO	15	ABOVE ***	
**** FOR	76 TO	78.	SEE	14 TO	16	ABOVE ***	
**** FOR	77 10	79.	SEE	13 TO	15	ABOVE ***	
**** FCR	78 TO	80.	SEE	14 TO	16	ABOVE ***	
**** FOR	79 TO	81.	SEE	13 TO	15	ABOVE ***	_
**** FOR	80 TO	82.	SEE	14 TO	16	ABOVE ***	-
**** FOR	81 TO	83,	SEE	13 TO	15	ABOVE ***	
**** FOR	82 TO	84.	SEE	14 TO	16	ABOVE ***	
**** FOR	83 TO	85.	SEE	13 TO	15	ABOVE ***	
**** FCR	84 TO	86.	SEE	14 TO	16	ABOVE ***	
**** FOR	85 TO	87.	SEE	1 TO	3	ABOVE ***	_
**** FOR	88 TO	90•	SEE	13 TO	15	ABOVE ***	-
83	89 TO	91		93 TO	95	8	3
84	89 TO	91		179 TO	181		3
85	89 TO	91		192 TO	194	8	3
**** FOR	90 TO	92,	SEE	56 10		ABOVE ***	
86	91 TO	93		133 TO	135	8	3
87	91 TO	93		134 TO	136	8	3
88	91 TO	93		193 TO	195	8	3
**** FOR	92 TO	94,	SEE	89 TO		ABOVE ***	
**** FCR **** FCR	93 TO	95•	SEE	56 TO	58	ABOVE ***	
	96 TO	98.	SEE	14 TO 171 TO			
89 90	97 TO	99 100		171 TO 104 TO	173 106	8 8	3 3
	58 TO	100		221 TO	223	8	3
91			SEE	23 TO		ABOVE ***	_
**** FCR **** FCR	101 TO 102 TO	103. 104.	SEE	24 TO	26	ABOVE ***	
92	102 TO	104,	JEE	209 TO	211	8	3
92 ++++ FOR	103 10	106.	SEF	98 TO	100	ABOVE ***	
93	104 TO	107	JEF	208 TO	210	8	3
9 <i>9</i> 94	105 TO	167		218 TO	220	8	3
95	105 TO	1C8		138 TO	140	8	3
**** FCR	110 TO	112.	SEE	59 TO		ABOVE ***	_
96	111 TO	113	J. C.	199 TO	201	8	3
70	10			.,, 10	-01	U	_

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENG	TI
57	118 TO 120		126 TO 12	28 8 3	
**** FCR	119 TO 121	• SEE		53 ABOVE ***	
**** FCR	121 TO 123			72 ABOVE ****	
**** FOR	122 TO 124		118 TO 13	20 ABOVE ****	
**** FOR	125 TO 127		118 TO 13	20 ABOVE ****	
**** FOR	126 TO 128		51 TO	53 ABOVE ****	
**** FOR	127 TO 129		97 TO 4	99 ABOVE ****	
**** FCR	132 TO 134	• SEE	59 TO	51 ABOVE ****	
**** FOR	133 TO 135	• SEE	91 TO 9	93 ABOVE ****	
**** FOR	134 TO 136	• SEE		93 ABOVE ****	
**** FOR	139 TO 141			08 ABOVE ****	
**** FOR	143 TO 145	• SEE	24 TO 2	26 ABOVE ****	
**** FOR	152 TO 154	• SEE		26 ABOVE ****	
**** FOR	158 TO 16C			26 ABOVE ****	
**** FCR	159 TO 161			25 ABOVE ****	
**** FGR	160 TO 162	• SEE		26 ABOVE ****	
**** FOR	161 TO 163	• SEE		25 ABOVE ****	
**** FOR	162 TO 164	• SEE		26 ABOVE ****	
**** FOR	163 TO 165			25 ABOVE ****	
**** FCR	164 TO 166			26 ABOVE ****	
**** FCR	172 TO 174			15 ABOVE ****	
**** FGR	173 TO 175			91 ABOVE ****	
**** FOR	174 TO 176	• SEE		56 ABOVE ****	
98	175 TO 177			79 8 3	
\$9	175 TO 177			89 8 3 92 8 3	
100	175 TO 177			92 8 3	
101	175 TO 177			98 8 3 91 8 3 97 8 3	
102	176 TO 178			91 8 3	
103	176 TO 178			•	
**** FOR	177 TO 179		1 TO	3 ABOVE ****	
**** FOR	178 TO 180			55 ABOVE ****	
**** FCR	179 TO 181			58 ABOVE ****	
**** FOR	180 TO 182			56 ABOVE ****	
**** FOR	182 TO 184			91 ABOVE ****	
**** FOR	183 TO 185			56 ABOVE ****	
**** FOR	187 TO 189		1 TO	3 ABOVE ****	
**** FOR	188 TO 190			77 ABOVE ****	
**** FCR	189 TO 191			78 ABOVE ****	
**** FOR	190 TO 192		1 TO	3 ABOVE ****	
**** FOR	191 TO 193			55 ABOVE ****	
**** FGR	192 TO 194			58 ABOVE ****	
**** FOR	193 TO 195			93 ABOVE ****	
**** FOR	194 TO 196			16 ABOVE ****	
**** FCR	195 TO 197			78 ABOVE ****	
**** FOR	196 TO 198		1 70	3 ABOVE ***	
**** FOR	206 TO 208			26 ABOVE ****	
**** FOR	207 TO 209	• SEE		25 ABOVE ****	
104	2C8 TO 210			15 8 3	
105	209 TO 211	cer		14 8 3	
**** FOR	210 TO 212			25 ABOVE ****	
**** FOR	211 TO 213	• SEE	24 TO 2	26 ABOVE ****	

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PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	212 TO 214	• SEE	103 TO 105	ABOVE ****
**** FOR	213 TO 215	• SEE	105 TO 107	ABOVE ***
**** FOR	214 TO 216	• SEE	24 TO 26	ABOVE ***
**** FOR	215 TO 217	• SEE	23 TO 25	ABOVE ****
**** FOR	216 TO 218	• SEE	24 TO 26	ABOVE ***
**** FOR	217 TO 219	• SEE	23 TO 25	ABOVE ****
**** FOR	218 TO 220		208 TO 210	ABOVE ****
**** FOR	221 TO 223	• SEE	98 TO 100	ABOVE ***
**** FCR	223 TO 225		89 TO 91	ABOVE ***
**** FOR	236 TO 238		7 TO 9	ABOVE ****
**** FOR	238 TO 240	-		ABOVE ****
**** FOR	239 TO 241			ABOVE ****
**** FOR	241 TO 243		9 TO 11	
**** FOR	243 TO 245			ABOVE ****
**** FGR	247 TO 249			ABOVE ****

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH --EXACT RET. INVERSION WAS BEGUN AT 205 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST I	ENGTH
106 107	13 TO 16		29 TO 32 31 TO 34	8 8	4
107	13 TO 16		33 TO 36	8	4
109	13 TO 16		35 TO 38	8	4
110	13 TO 16		71 TO 74	8	4
111	13 TO 16		73 TO 76	8	4
112	13 TO 16		75 TO 78	8	4
113	13 TO 16		77 TO 80	8	4
114	13 TO 16		79 TO 82	8	4
115	13 TO 16		81 TO 84	8	4
116	13 TO 16		83 TO 86	8	4
117	19 TO 22		38 TO 41	8	4
118	23 TO 26		101 TO 104	8	4
119	23 TO 26		159 TO 162	8	4
120	23 TO 26		161 TO 164	8	4
121	23 TO 26		163 TO 166	8	4
122	23 TO 26		210 TO 213	8	4
123	23 TO 26		215 TO 218	8	4
124	24 TO 27		158 TO 161	8	4
125	24 TO 27		160 TO 163	8	4
126	24 TO 27 24 TO 27		162 TO 165 206 TO 209	8 8	4
127			214 TO 217	8	4
128	24 TO 27 24 TO 27		216 TO 219	8	4
129	24 10 27		238 TO 241	8	4
130 131	28 TO 31		32 TO 35	8	4
132	28 TO 31		34 TO 37	8	4
133	28 TO 31		72 TO 75	8	4
134	28 TO 31		74 TO 77	8	4
135	28 TO 31		76 TO 79	8	4
136	28 TO 31		78 TO 81	8	4
137	28 TO 31		80 TO 83	8	4
138	28 TO 31		82 TO 85	8	4
**** FOR	29 TO 32		13 TO 16	ABOVE ****	k
**** FCR	30 TO 33		28 TO 31	ABOVE ***	
**** FOR	31 TO 34			ABOVE ***	
**** FCR	32 TO 35		28 TO 31	ABOVE ***	
**** FOR	33 TO 36		13 70 16	ABOVE ***	
**** FOR	34 TO 37		28 TO 31	ABOVE ****	
**** FOR	35 TO 38		13 TO 16	ABOVE ****	
139	52 TO 55		174 TO 177	8	4
140	55 TO 58		173 TO 176	8	4
141	55 TO 58		182 TO 185	8 ABOVE ***	4
**** FOR	71 TO 74	• SEE	13 TO 16	ABOVE ***	•

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	72 TO 75		_	ABOVE ****
**** FOR	73 TO 76			ABOVE ****
**** FCR	74 10 77		28 TO 31	
**** FGR **** FOR	75 TO 78 76 TO 79		13 TO 16 28 TO 31	ABOVE ****
**** FOR	77 TO 80			ABOVE ****
**** FOR	78 TO 81		28 TO 31	
**** FOR	79 TO 82			ABOVE ****
**** FOR	80 TO 83	• SEE	28 TO 31	ABOVE ****
**** FOR	81 TO 84		13 TO 16	
**** FCR	82 TO 85		28 TO 31	
**** FOR	83 TO 86			ABOVE ****
142	89 TO 92		92 TO 95	8 4
143 **** FCR	91 TO 94 92 TO 95		192 TO 195 89 TO 92	8 4 ABOVE ****
144	96 TO 99		171 TO 174	8 4
**** FOR	101 TO 104			ABOVE ****
145	102 TO 105		209 TO 212	8 4
146	118 TO 121		125 TO 128	8 4
**** FOR	125 TO 128			ABOVE ****
**** FOR	158 TO 161		24 TO 27	
**** FCR	159 TO 162			ABOVE ****
**** FOR	160 TO 163		24 10 27	
**** FCR **** FOR	161 TO 164 162 TO 165			ABOVE ****
**** FOR	163 TO 166	•		ABOVE ****
147	173 TO 176	-	178 TO 181	8 4
148	173 TO 176		191 TO 194	8 4
149	174 TO 177		177 TO 180	8 4
150	174 TO 177		190 TO 193	8 4
151	175 TO 178		189 TO 192	8 4
152	175 TO 178		195 TO 198	8 4
153	176 TO 179		188 TO 191 52 TO 55	8 4
**** FOR **** FOR	177 TO 180 178 TO 181			ABOVE ****
154	179 TO 182		222 TO 225	8 4
**** FOR	182 TO 185			ABOVE ****
**** FOR	188 TO 191			ABOVE ****
**** FCR	189 TO 192			ABOVE ****
**** FOR	190 TO 193			ABOVE ****
**** FOR	191 TO 194			AROVE ****
**** FOR	195 TO 198			ABOVE **** ABOVE ****
**** FOR 155	206 TO 209 207 TO 210	• SEE	24 TO 27 213 TO 216	8 4
156	208 TO 211		212 TO 215	8 4
**** FOR	210 TO 211	• SEE		ABOVE ****
**** FOR	211 TO 214			ABOVE ****
157	213 TO 216		217 TO 220	8 4
**** FCR	214 TO 217			ABOVE ****
**** FGR	215 TO 218			ABOVE ****
**** FOR	216 TO 219	• SEE	24 TO 27	ABOVE ****

PATTERN NCTES RELATED TO NOTES TEST LENGTH

**** FOR 217 TO 220. SEE 207 TO 210 ABOVE ****

**** FOR 238 TO 241. SEE 24 TO 27 ABOVE ****

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -EXACT RET. INVERSION WAS BEGUN AT 275 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
158	101 TO 1	05	209 TO 213	8 5
				-
159	173 TO 1	77	177 TO 181	8 5
160	173 TO 1	77	190 TO 194	8 5
**** FOR	173 TO 1	77. SEE	173 TO 177	ABOVE ****
161	174 TO 1	78	189 TO 193	8 5
**** FOR	174 TO 1	78, SEE	174 TO 178	ABOVE ****
162	175 TO 1	79	188 TO 192	8 5
**** FOR	188 TO 1	92. SEF	175 TO 179	ABOVE ****
163	206 TO 2	10	213 TO 217	8 5
164	207 TO 2	11	212 TO 216	8 5
**** FOR	207 TO 2	11. SEE	207 TO 211	ABOVE ****
**** FOR	210 TO 2	14. SEE	101 TO 105	ABOVE ****
**** FCR	216 TO 2	20. SEE	206 TO 210	ABOVE ****

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH --EXACT RET. INVERSION WAS BEGUN AT 341 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
165	173 TO 17	8	189 TO 194	8	6
166	174 10 17	9	188 TO 193	8	6
167	2C6 TO 21	1	212 TO 217	8	6
#### FOR	206 TO 21	1. SEE	206 TO 211	AROVE ***	*

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -EXACT RET. INVERSION WAS BEGUN AT 401 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TC NOT	NOTES		LENGTH	
168	173 TO 17	9	188 TO	194	8	7	

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH --EXACT RET. INVERSION WAS BEGUN AT 417 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

ENC OF TYPE I LISTING. TOTAL OF 168 PATTERNS LOCATED.

*** TYPE II LISTING ***

ECGARC VARESE DENSITY 21.5 FOR SOLO FLUTE EXACT RET. INVERSION

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
GRIGINAL PATTERN	173 TO 179	2	7	
SLEPATTERN	175 TC 177	5	3	

**** TEST 8 COMPLETED AT 522 SECONDS INTO EXECUTION ****

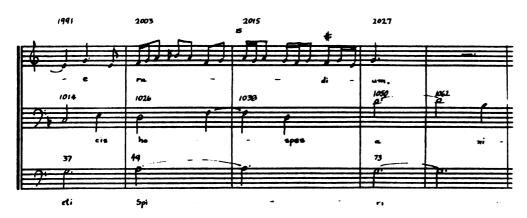
For Tests 5 and 13 of the Dunstable motet, the three voices were submitted in the following order: tenor, alto, and soprano. For Test 12, the three voices were submitted in the following order: soprano, alto, and tenor. (The number 99999 was inserted in the input data deck to separate each successive voice entry.)

The computer program assigned a reference number to each sixteenth-duration contained in each measure. (Twelve numbers were assigned to each \(\frac{3}{4} \) measure; eight numbers were assigned to each \(\frac{2}{4} \) measure.) The numbers shown in the scores refer to the location of the \(\frac{\text{first}}{1\text{sixteenth-duration}} \) of the measure for each voice part. The numbers assigned to notes found later in the measure are not shown, but may be calculated by adding the appropriate number of sixteenth-durations to the number shown at the beginning of the measure for each individual part.

The following score shows the computer-assigned reference numbers used for Tests 5 and 13 of the Dunstable motet.













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******* MUSIC MELODIC PATTERN ANALYSIS *********

JCHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

TEST REQUESTED 5
UNITS OF DATA PER CARD 12

COMPUTER REFERENCE NUMBER ASSIGNMENT

NCTES 45	c 1	THROUGH 0 0	_	0	o	J	0	0	0	0
NCTES 0	0	THROUGH 0 0	_	0	o	J	э	0	o	О
NOTES -1	25 0	THROUGH 0 0		0)	J	э	ว	c	0
NOTES 45	37 C	THROUGH 0 0	0 48	_	0	J	o	.	0	С
NOTES 47	49 0	THROUGH 0 0		0	c	J	0	o	0	0
NOTES 0	61 0	THROUGH 0 0		2	0	J	o	c	c	Э
NOTES 45	73 0	THROUGH 0 0	_	-	J	J	0	Э	c	0
NOTES 0	85 0	THROUGH O O)	J	0	c	o	0
NOTES -1	97 0	THROUGH 0 0			0)	0)	0	o
NCTES 50	109	THROUGH 0 0			o	J	0	o	0	0
NOTES 49	121 0	THROUGH 0 0			o	J	0	0	0	Э
NCTES 50	133 0	THROUGH 0 0	_		o	J	0)	0	o
NOTES 47	145 0	THROUGH C O	156	S 0	o	J	o	J	0	ว

NOTES 45	157 0	THROUGH O C	0 0	0	3	0	С	0	0
NOTES 43	169 0	THROUGH 0 0	0 0	0	J	0	С	0	o
NCTES -1	181 0	THROUGH 0 0	192 0 0	0	J	0	С	0	0
NCTES 0	193 0	THROUGH 0 0	204 0 0	0	J	0	o	0	0
NOTES 0	205 0	THROUGH 0 0	0 0	э	U	0	э	0	Э
NOTES 45	217 0	THROUGH 0 0	228 0 0	o	J	0	э	0	o
NOTES -1	229 0	THROUGH 0 0	240 0 0	3	u	0	0	0	0
NCTES 45	241 0	THROUGH 0 0	252 0 0	3	э	0	o	0	0
NOTES 0	253 0	THROUGH 0 0	264 0 C)	J	0	c	0	0
NOTES	265 0	THROUGH 0 0	276 0 0	o	J	0	0	9	0
NCTES 0	277 0	THROUGH 0 0	288 0 0	J	J	0	3	0	0
NOTES 0	289 0	THROUGH 0 0	300	o	J	0	0	0	o
NCTES 0	301 0	THROUGH 0 0		0	J	0	3	0	0
NCTES 0	313 0	THROUGH 0 0		0	J	0	2	o	3
NCTES 0	325 0	THROUGH C 0	336 0 0	3	J	o	3	3	0
NOTES 0		THROUGH 0 0		0	J	Э	3	0)
NCTES 0		THROUGH 0 0		o	J	0	o	0	3
NOTES 0	361 0	THROUGH O O		Э	J	0)	0)

NOTES 45	373 C	THROUGH 0 0	384 0 0	0	Ü	0	э	0	0
NOTES C	385 C	THROUGH O O	396 0 0	0	0	o	э	0	0
NCTES -1	397 0	THROUGH 0 0	408 0 0	0	J	0	э	0	o
NOTES 45	409 0	THROUGH 0 0	420 0 0	0	o	0	o	0	0
NCTES 43	421 C	THROUGH 0 0	432 0 0	0	u	0	э	0	0
NOTES 0	433 0	THROUGH C O	0 0	0	J	0	0	0	0
NCTES 45	445 C	THROUGH 0 0	456 0 0	٥	U	0	э	0	0
NOTES 0	457 0	THROUGH 0 0	468 0 0	0	۵	0	ა	0	0
NCTES -1	469 0	THROUGH 0 0	480 0 C	0	J	0	o	0	0
NOTES 40	481 0	THROUGH 0 0	492 0 0	0	J	0	o	0	0
NOTES 42	493 0	THROUGH 0 0	504 0 0	0	J	0	J	0	0
NCTES 40	505 0	THROUGH 0 0	516 0 0	0	J	0	o	0	0
NOTES 43	517 C	THROUGH 0 0	528 0 0	0	J	0	Э	0	0
NOTES 45	529 0	THROUGH 0 0		o	J	0	0	0	0
NCTES 47		THROUGH 0 0		0	ن	٥	0	0	2
NCTES -1	553 0	THROUGH G 0		о	a	٥	э	0	0
NCTES 0	565 C	THROUGH 0 0		0	ú	0	э	0	0
NOTES 0	577 0	THROUGH 0 0	588 0 0	0	J	0	0	0	0

589 0	THRO	OUGH O	60 0	0	o	J	0	o	0	0	
601 C	THRO	OUGH 0	61. 0	2 0	э	J	0	c	0	0	
613 C	THRO	OUGH 0	62 ⁶	4 0	0	J	0	o	0	0	
625 0	THRO	OUGH O		6 C	0	J	0	o	0	Э	
	UN	ITS C	F D	ATA	PER	CARD	CHAI	NGED	T 0		8
63 7 0	THRO	OUGH O	_	4 C	o	ú					
645 0		OUGH O	_	2	o	J					
653 C		OUGH 0		o C	0	э					
66 1 0		O O	_	8 0	0	J					
66 9 0	THR	OUGH 0	_	6 0	o	J					
677 0	THRO	OUGH 0	68 ⁶	4 C	0	,					
685 0	THRE	OUGH 0	69 0	2 C	0	o					
		OUGH O			c	٥					
701 3		OUGH O			ð	ú					
709 }		O O			c	J					
'17)		OUGH O			3	J					
'25)		OUGH O			Э	J					
·33		OUGH O			o	J					
-											

741 0	THROUGH O O			o	J
749 0	THROUGH O O		0	o	0
757 0	THROUGH 0 0	764 0		0	J
765 0	THROUGH 0 0			0	J
773 0	THROUGH 0 0			0	0
781 0	THROUGH 0 0			0	0
789 0	THROUGH 0 0			o	0
797 0	THROUGH O C			0	۵
805 0	THROUGH 0 0			0	U
	0 0	820	9	0	0
0 813	0 0 THROUGH 0 0	0 (820 0 (828	0		
0 813 0 821 0	0 0 THROUGH 0 0 THROUGH	0 (820 0 (828 0 (836		0	0
0 813 0 821 0 829 0	0 0 THROUGH 0 0 THROUGH 0 0 THROUGH	0 (820 0 (828 0 (836 0 (844		0	0
0 813 0 821 0 829 0	O O THROUGH O O THROUGH O O THROUGH O O	0 (820 0 (828 0 (836 0 (844 0 (852		0	0
0 813 0 821 0 829 0 837 0	O O THROUGH O O THROUGH O O THROUGH O O THROUGH O O	0 (820 0 (828 0 (836 0 (844 0 (852 0 (860		0	0 0

UNITS OF DATA PER CARD CHANGED TO 1 99999

	UNI	TS (of D	ATA	PER	CARD	CHAI	NGED	TO	12
870 0	THRC 0				၁	J	0	o	0	0
882 0	THRO		_		0	J	o	o	0	0
	THRO O				0	J	48	0	0	0
-	THRO				c	J	48	0	0	0
518 0	THRO				0	J	0	0	0	0
	THRO		-		0	J	0	o	0	0
	THRC 0			_	45	J	0	J	42	0
	THRO				0	J	38	o	0	0
	THRO				0	J	0	0	0	0
	THRO				0	U	0	0	0	c
	THRO	-	100	_	0	u	0	0	0	0
1002	THRO	UGH 0	1013	3 0	0	J	0	0	0	9
1014	THRO	UGH 0	102	5 0	0	J	42	0	0	0
1026 0	_	UGH 0	_	7 0	0	J	43	0	0	0
1038		O 4		9	0	ú	0	0	0	0
1050 0	THRO	UGH 0	106	0	3	J	0	0	0	0
1062 C	THRO G	UGH 0	1073 0	3 0	0)	48	3	0	0

ES 7	1074 0		UGH 0	1085 0	0	0	J	48	0	0	0
ES 3	1086 0		_	1097 0	0	0	o	38	o	0	0
ES 1	1098 0		UGH 0 4			43	J	45	0	0	0
E S 8	1110	_		1121 0	0	0	J	43	၁	0	0
ES O	1122		UGH 0 4		0	0	J	43	၁	0	0
E S 8	1134 0		UGH 0 -			50	٥	49	o	0	0
ES O	1146 C	THRO	UGH 0	1157 0	0	0	J	0	၁	0	0
E S 5	1158 0		_	1169 0	0	0	J	45	0	0	0
ES 7	1170 0		_	1181 0	0	0	J	47	c	0	0
ES 7	1182 0			1193 0	0	0	Ü	45	o	o	o
ES 1	1194 0		UGH 0 4		0	0	J	38	0	9	0
ES 2	1206			1217 0	0	0	a	0	o	0	o
ES 8	1218				0	0	0	0	o	0	c
ES O	1230 0	THRO G		1241 0		0	0	0	0	0	0
ES O	1242 0	THRO O		1253 0	0	0	o	0	o	0	0
ES O	1254 0			1265 0	0	0	J	0	3	0	c
E S 7	1266 0		UGH 0 4		0	0	c	43	0	c	0
ES O	1278 0		0 4		0	0	J	47	0	0	0

1290 0	THROU C O			0	0	0	0	3	0	0
1302 0	THROU O O			0	J	u	0	0	0	0
1314 0	THROU			0	40	u	0	o	45	0
	THROU		_	0	9	a	45)	٥	0
1338 0	THROU 0 0			0	ð	C	0	0	0	0
1350 0	THROU O O			0	o	0	0	0	0	0
1362 0	THROU 0 0		1373 0	0	j j	3	52	0	o	0
1374 0	THROU 0 0			0	0	J	47	o	0	0
1386	THROU	JGH	1397	0	50	3	49	0	0	0
1398		IGH	1409		0	3	0	0	0	0
1410		JGH	1421	_	o	J	0	3	0	o
1422	THROU	IGH	1433	_	0	j j	_	υ υ	3	0
	O O	IGH	1445				52			
	0 0				0	D	O)	0	0
	THROU O O				၁	J	45	0	0	0
1458 C	THROU O O				0	J	47	Э	o	0
	THROU 50 0				47	ú	0	0	45	0
1482 0	THROU O O				J)	0	0	0	0
1494 0	THROU		1505 7		o	J	-1	J	0	0

S	1506 0	THRO	OUGH 0 4		0	0	c	0	Э	0	o	
S	1518 0	THRO	_	_	9	o	ù	43	0	0	0	
S	1530 0	THRO	DUGH 0 4		0	0	J	0)	0	0	
S	1542 0		OUGH 0 4			J	3	0	Э	0	0	
S D	1554 0	THRO		_	5 0	0	3	0	o	0	0	
ES L	1566 0	THRO		1577 0		0	0	0	o	0	0	
≣ S 5	1578		OUGH 0 4			o	ů	40	J	0	0	
E S 8	1590 0	THRO		_	0	0	J	2	o	0	0	
ES 0	1602 0	THRO	OUGH O	_	3 0	0	0	0)	o	0	
		UNI	ITS C	F D	ATA	PER	CARD	CHA	ANGED	TO		8
E S 0	1614 0		OUGH O	_	0	0	0					
ES O	1622 0	THRO	OUGH 0 5		0	0	3					
E S -8	1630 0	THRO		1631 0		0	ù					
	1638 0			1649 0		50	0					
	1646					0	J					
TES O	1654 0		о О -			0	ı					
	1662		OUGH 0 4		9	o	u					
	1670	THRO		167		•	.,					

TES 0	1678 0	THR:			85 0	0	0
ES 8	1686 0	THR O		H 169 45	93	0	c
ES 0	1694 0	THR O			0	0	٥
ES 0	1702 0	THR			0	47	0
ES 5	1710 0				17	0	o
	1718 0				25 0	0	3
	1726				33	43	0
	1734 0				41 O	o	J
	1742 0		oug 0	H 174	49	0	٥
	1750					48	o
	1758 0					0	u
	1766					45	o
ES 9	1774 0	THR	oug 0	H 178	81	0	O
ES 2	1782	THR	OUG!	H 178	89	48	3
ES 7	1790 0	THR C	OUG!	H 179	97	0	J
ES 5	1798 0	THR	DUG 0	H 180	05	0	J
ES 0	1806	THR	OUG O	H 181 42	13	0	J
	1814					45	. 4

S	1822	THR	OUGH O		329 4 2	44	0				
S	1830 0	THR O	OUGH O	18	33 7 0	0	0				
E S	1838	THR O	OUGH O	18	3 45 0	э	3				
E 1	.846	-	IITS 99 99		DATA	PER	CAR	CH1	ANGE	D TO	1
		UN	ITS	0 F	DATA	PER	CAR	CH4	ANGE	0 T O	12
E S 0	1847 0	THR O	OUGH 0	18	358 0	0	٥	54	С	0	0
E S 0	1859 0	THR G		18 57	370 0	o	э	59	o	0	0
ES O	1871	THR O		18 57	882	0	J	0	c	55	0
ES 2	1883				394 0	0	J	52	o	0	3
E S 7	1895 0	THR O	OUGH 0	_	906	57	j.	56	0	54	o
E S 7	1907 C	THR C		19 -1	918 C	J)	54	o	0	3
ES O	1919	THR 55	OUGH	19	30	54)	52	o	50	0
	1931	THR	OUGH O			0	0	54	o	0	0
	1943			19		50		49	0	47	0
	1955 C	THR		19	966	3	J	0	3	0	o
ES	1967	THR	OUGH	19	78	52	j j	50		0	0
4 ES 2	0 1979 0	O THR C		19	0 990 0))	J	54	0	0	о Э
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ES O	1951	THRO	0 5			o	u	0	0	54	Э
ES 5	2003 57		O 6			59	J	55	J	57	0
E S 9	2015 57			202 <i>6</i> 7 5		57	o	56	57	54	3
ES 7	2027 0	THRO	OUGH O	2038 0	0	o	ů	0	J	0)
ES 1	2039 0	THRO	O O	2050 0	0	0	o	0	э	0)
E S 9	2051 0	THRO	0 5		0	0	J	57	0	э	0
ES 5	2063 0	THRO	OUGH O -		_	0	0	54	o	0	0
E S 7	20 7 5 0	THRO	OUGH O	208 <i>6</i> 0		55	J	52	Э	0	0
E S 1	2087		OUGH O	2098 0	0	50	J	50	o	0	0
E S 5	2099 0	THRO	0 5		0	59	U	0	ɔ	55	0
E S 4	2111		OUGH O	2122 0		55	J	54	Э	52	0
ES 5	2123	THRO	0 -		0	0	J	0	3	0	0
E S 7	2135 C	_		2146 7	_	0	0	57	0	55	0
E S 4	2147		0 5			0	.	54	0	55	0
E S 4	2159 0	THRO	OUGH O			50	J	49	ა	50	0
E S 2	2171 0	THRO	OUGH 0 4		0	45	J	0	0	50	9
E S 9			0 5			50	u	49	С	47	49
E S 0	2195 0	THRO	OUGH O	220 <i>6</i> 0	0	o	J	0	o	0	0

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ì	2219 0	THR O	OUGH 0	223 0	0	0	J	57	Э	0	0
1	2231 C	THR 0	OUGH 0		0	55	ı	54	o	0)
i	2243 0	THR O		225 52		o	ú	0	3	50	0
;	2255 0 !		OUGH 0		6 0	0	ú	50	o	0	0
;	2267 0	THR O	OUGH 0		78 0	55	J	54	0	52	c
;	22 7 9 0	THR O		_	90	0	J	59	0	0	0
;	2291		OUGH 0	_	0	55	J	52	0	54	0
5	2303		OUGH O		14	0	J	60	Э	o	0
5	2315 0	THR O	OUGH O	_	26	57)	56	c	54	2
5	2327 0	THR O		233 -1		0	a	0	0	0	c
5	2339 0		OUGH O			52	ü	57	0	55	Э
S	2351 0					0	J	54	0	50	0
S	2363		OUGH 0			0	c	0	9	55	0
S	2375 C		OUGH O			0	J	0	c	o	0
S	2387 0		OUGH O			0	J	0	3	0	o
S	2399 C		OUGH 0			o	c	0	Э	55	2
S	2411 0		OUGH 0			0	J	54)	0	0

•	2423 0	THRI O	OUGH O	24: 0	34 0	54	J	54	0	0	52	
1	2435 0	THR	OUGH O		46 0	47	J	0	o	52	0	
-	2447 52		ough 0		58 52	52	3	51	ว	52	49	
-	2459 0	THR		_	70 0	0	J	59	o	o	o	
•	24 7 1 0	THRI C	-		82 0	57	J	55	0	0	0	
•	2483 0	THR	OUGH O			57	J	0)	54	o	
•	2495 0	THR(5 7			06 0	Э	J	55	Э	0	c	
;	2507 0	THR	OUGH O	25 0	18 O	55	۵	54	55	52	0	
;	2519 0	THRI O		25: -1	30 U	0	J	50	c	0	0	
;	2531 0	THR:	O O		42 0	52	J	0	c	50)	
;	2543 0	THRE	OUGH O		54 0	54	J	0	o	55	0	
5	2555 0	THR	DUGH O		66 0	57	٥	56	0	57	54	
;	2567 0					0	J	0	0	0	0	
5	25 79 0				90 0	э	J	0)	0	0	
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5	2599 0		OUGH O			٥	J					
S	2607				14	57	ä					

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J	0	678	SH 20	_	1 TH		
٥	٥	686	5H 20	IROU	9 TH	267	
	•	694	SH 20	IROU	7 TH		
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0	52	0	54 54	0	5 7	269: C	_
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s	279	L THE	ROUG	H 27	98		
	0	50	0	52	C	49	O
2	799	THE	ROUG	H 28	06		
	C	50	0	49	C	50	47
2	807	THE	ROUGI	H 28	14		
				0	0	0	0
2	815	THE	ROUGI	H 28	22		
(0	0	0	0	O	0	0
21	323	THE	ROUGI	H 28	24		
	5 7 S S	S 276 S 277 O S 278: O S 279: O C 2807 O 2815	5 0 57 ES 2767 THE O 0 56 ES 2775 THE O 0 ES 2783 THE O 50 ES 2791 THE O 50 E 2799 THE O 50 E 2807 THE O 0 E 2815 THE O 0	5 0 57 0 ES 2767 THROUGH O 56 0 S 2775 THROUGH O 50 0 S 2783 THROUGH O 50 0 S 2791 THROUGH O 50 0 2807 THROUGH O 0 0 2815 THROUGH O 0 0	5 0 57 0 59 ES 2767 THROUGH 27 O 56 0 0 ES 2775 THROUGH 27 O 0 0 -1 ES 2783 THROUGH 27 O 50 0 0 ES 2791 THROUGH 27 O 50 0 52 E 2799 THROUGH 28 O 50 0 49 2807 THROUGH 28 O 0 0 0	5 0 57 0 59 0 ES 2767 THROUGH 2774 7 0 56 0 0 0 S 2775 THROUGH 2782 0 0 0 -1 C S 2783 THROUGH 2790 0 50 0 0 0 S 2791 THROUGH 2798 0 50 0 52 C 2799 THROUGH 2806 0 50 0 49 C 2807 THROUGH 2814 0 0 0 0 0	5 0 57 0 59 0 55 ES 2767 THROUGH 2774 7 0 56 0 0 0 54 ES 2775 THROUGH 2782 0 0 0 -1 C 54 ES 2783 THROUGH 2790 0 50 0 0 47 ES 2791 THROUGH 2798 0 50 0 52 C 49 ES 2799 THROUGH 2806 0 50 0 49 C 50 ES 2807 THROUGH 2814 0 0 0 0 0 0 ES 2815 THROUGH 2822 0 0 0 0 0 0

OTES 2759 THROUGH 2766

-99

COLLOWING TYPES OF PATTERN HAVE BEEN DELETED M THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

PATTERNS WHICH LACK CHANGE-DF+DIRECTION

THE DESCRIPTION OF THE PROPERTY OF THE SANCTE SPIRITUS

ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
NOR 2	88	18.72
JOR 2	173	36.81
NOR 3	71	15.11
IOR 3	41	8.72
F. 4	44	9.36
TONE	0	0.0
F. 5 OR 6	11	2.34
	0	0.0
OR 6	0	0.0
OF 7	0	0.0
OR 7	9	0.0
AVE	4	0.85
DR 9	0	0.0
DR 9	0	0.0
PR 10	0	0.0
PR 10	3	0.9
. 11	0	0.0
• TT	0	0.0
. 12	0	0.0
R 13	0	0.0
R 13	0	0.0
R 14	0	0.0
R 14	0	0.0
CT.	0	0.0
NC	38	8.09
RVALS EEDING TWO AVES	0	0.0

470 INTERVALS COUNTED

IDING UNISONS

JCHA DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TCTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINCE 2	42	20.79
MAJCR 2	76	37.62
FINCR 3	29	14.36
MAJCR 3	20	9.90
FEFF. 4	27	13.37
TRITCHE	0	0.0
PERF. 5	4	1.98
PINCF 6	0	0.0
PAJCF 6	0	G • O
MINOF 7	0	0.0
7 AJCA	0	0.0
CCTAVE	4	1 .9 8
MINCF S	0	0.0
MAJOR 9	0	0.0
PINCF 1C	C	G.O
MAJOR 1C	0	0.0
FFRF. 11	O	0.0
CCMP. IT	C	0.0
FFRF. 12	0	0.0
MINCF 13	0	0.0
MAJCR 13	0	0.0
MINCF 14	0	0.0
MAJER 14	0	0.0
THE CET.	C	~0.0
INTERVALS	0	0.0
FXCEEDING THE		
OCTAVES		

2C2 ASCENDING INTERVALS COUNTED

JCHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TCTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINCF 2	46	20.00
MAJCF 2	57	42.17
MINCR 3	42	18.26
MAJCR 3	21	9.13
FERF. 4	17	7.39
TRITONE	0	0.0
FERF. 5	7	3.04
MINGF 6	0	0.0
MAJCR 6	0	0.0
PINCE 7	0	0.0
MAJGR 7	0	0.0
CCTAVE	0	0.0
PINCE S	0	0.0
MAJCR S	0	C.O
PINCF 1C	0	0.0
PAJCR 1C	0	C.O
PERF. 11	0	0.0
CCMP. TT	C	0.0
FERF. 12	0	C.O
MINCF 13	0	0.0
MAJCR 13	0	0.0
PINCF 14	0	0.0
MAJCR 14	0	0.0
THE CET.	O	C.O
INTERVALS FXCEECING THC CCTAVES	0	0.0

230 CESCENDING INTERVALS COUNTED

*** TYPE I LISTING ***

JOHN CUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

SEARCH FCR PATTERNS OF 3 NOTES IN LFNGTH -TCNAL RETROGRADE has begun at 55 seconds into execution.

PATTFRN	NCTES	RELATED TO NOTES	TEST	LENGTH
1	1 TC 49	541 TO 613	5	3
2	1 TG 49	613 TO 733	5	3
3	1 TO 49	1146 TO 1166	5	3
4	1 10 49	1182 TO 1198	5	3
5	1 TO 49	1294 TO 1306	5	3
6	1 TC 49	1762 TO 1770	5	3
7	1 TC 49	1939 TO 1949	5	3
8	1 TO 49	2089 TO 2095	5	3
9	1 TO 49	2311 TO 2321	5	3
10		2423 TO 2431	5	3
11 12	1 TO 49	2431 TO 2435 2445 TO 2453	5 5	3
13	1 10 49	2621 TO 2627	5 5	3
14 15	1 TO 49 37 TO 73	73 TO 121	5	3
16	37 TO 73	121 TO 145	5	3
17	37 TO 73	421 TO 481	5	
18	37 TC 73	481 TO 505	5	3
19	37 TO 73	529 TO 589	5	3
2C	37 TC 73	781 TO 797	5	3
21		797 TO 821	5	3
22	37 TO 73	821 TO 853	5	3
23	37 TO 73	902 TO 914	5	3
24	37 10 73	\$34 TO 946	5	3
25	37 1C 73	\$46 TO 952	5	
26	37 TC 73	556 TO 962	5	3
27	37 TO 73	962 TC 970	5	3
28	37 TO 73	578 TO 1014 1014 TC 1026	5	3
29 30	37 10 73	1026 10 1042	5	3
31	37 10 73	1042 TO 1070	5	3
32	37 10 73	1074 TO 1086	5	
23	37 TO 73	1104 TO 111C	5	3
34	37 TO 73	1110 TO 1126	5	3
35	37 TG 73	1126 TO 1134	5	3
36	37 TO 73	1134 TO 1142	5	3
37	37 1C 73	1142 TO 1158	5	3
38	37 10 73	1202 TO 1210	5	3
39	37 TO 73	1218 TO 1266	5	3
40	37 TC 73	1266 TO 1274	5	3
41	27 IC 73	1282 TO 1294	5	3
	37 TO 73	1314 TO 1320	5	3

PATTERN	NCTES	RE	LATED	TC	NOT	ES	TEST	LENG TH
43	37 TC	73				1334	5	3
44 45	37 TO 37 TO	73 73		1334 1386		1342 1392	5 5	3 3
46	37 10	73		1394		1422	5	
47	37 10	73		1422		1438	5	3 3 3 3 3 3 3 3 3 3 3
48	37 10	73		1470		1474	5	3
49	37 TC	73		1482		1494	5	3
5 C	37 TO	73		1542	? TO	1554	5	3
51	27 TO	73		1554		1580	5	3
52	37 TO	73		1614		163C	5	3
53	37 10	73		1638		1644	5	3
54	37 TO	73		1648		1662	5	3
55	37 TO 37 TO	73 73		1666 1690		1682 1706	5 5	3
56 57	37 10 37 TC	13 73		1718		1706	5	3
58	37 TC	73		1732		1738	5	3
59	37 10	73		1752		1756	5	3
6 C	37 10	73		1758		1768	5	3
<i>6</i> 1	37 TO	73		1774		1782	5	3
€2	37 TO	73		1814	TO	1819	5	3
63	37 TC	73		1820		1824	5	3
6 4	37 TC	73		1863		1875	5	3
65	37 TO	73		1883		1887	5	3
66	37 10	73		1505		1915	5	3
67	37 10	73		1919		1925	5	3 3 3 3 3
68 69	37 TO 37 TO	73 73		1935 1955		1943 1973	5 5	3
70	37 TO	13 73		1587		2001	5	3
71	37 10	73		2005		2009	5	3
72	37 TC	73		2013		2016	5	3 3 3 3 3
73	37 10	73		2016		2015	5	3
74	37 TO	73		2020		2023	5	3
75	27 10	73		2C23			5	3
76	37 TC	73		2071		2081	5	3
77	37 10	73		2083			5	3 3
78	37 10	73		2103		2109	5	
79	37 TO	73		2111		2117	5	3
80	37 TC	73 73		2169		2159 2175	5 5	3 3
81 82	37 TC 37 TO	13 73		2177		2183	5	3
83	37 10	73		2189		2189	5	3
£ 4	37 TC	73		2255		2259	5	3
٤5	37 TO	73		2279		2291	5	
8.6	37 TC	73		2293		2299	5	3 3 3
٤7	37 10	73		2307		2315	5	3
88	37 TC	73		2345		2349	5	3
89	37 10	73		2359		2361	5	3
90	37 10	73		2365		2373	5	3
51	27 TO	73		2373		2391	5	3
5 <i>?</i>	37 TC 37 TO	73 72		2359 2409		2409 2415	5 5	3 3
93	37 TO	73		/463	, (()	£413	9	2

PATTERN	NCTES	RELATED TC NOTES	TEST	LENGTH
54	37 10 73	2419 TO 2429	5	3
95	37 10 73 37 10 73	2441 TO 2447 2448 TO 2452	5 5	3 3
96 57	37 TC 73	2455 TO 2458	5	3
58	37 10 73	2487 TO 2493	5	3
59	37 TO 73	2497 TO 2503	5	3
100	37 TC 73	2509 TC 2515	5	3
101	37 10 73	2515 TO 2517	5	3
102	37 TO 73	2517 TO 2527	5	3
103	37 TC 73	2527 TO 2533	5	3 3
104	37 TC 73	2535 TO 2541	5	3
105	37 TO 73	2553 TO 2557	5	3
106	27 10 73	2563 TO 2566	5	3
107	37 10 73	2566 TO 2591	5	3 3
108	37 TC 73	2591 TO 2603	5	3
105	37 TO 73 37 TO 73	2631 TO 2635 2659 TO 2662	5 5	3 3
11C 111	37 TO 73 37 TC 73	2662 TO 2679	5	3
112	37 TO 73	2683 TO 2693	5	3
113	37 TO 73	2695 TO 2699	5	3
114	37 TO 73	2719 TO 2729	5	3 3
115	37 TO 73	2733 10 2739	5	3
116	37 10 73	2751 TO 2759	5	3
117	37 TO 73	2761 TO 2765	5	3
118	37 10 73	2765 TO 2769	5	3
119	27 TO 73	2773 TO 2781	5	3
120	37 TC 73	2793 TO 2797	5	3
121	37 10 73	2799 TO 2803	5	3
122	37 TO 73	2803 TO 2806	5	3
123	49 TO 109	105 TO 133 157 TO 217	5	3 3
124 125	49 TC 1C9 49 TO 109	409 TO 445	5 5	3
126	49 10 109	445 10 493	5	3
127	49 10 109	493 TO 517	5	3
128	49 TO 109	733 TO 773	5	3
129	49 TO 109	789 TO 805	5	3
130	49 TO 109	805 TO 837	5	3
131	49 TC 109	87C TO 898	5	3
132	49 TG 109	930 TO 942	5	3
133	49 TO 109	942 TO 948	5	3
124	49 TO 109	952 TO 956	5	3
135	49 TO 109	958 TO 966	5	3
136	49 TO 109	970 TO 1002	5	3
127	49 TC 109	1002 TO 1022	5	3
138 139	49 TO 109 49 TO 109	1C22 TO 1034 1C34 TO 105C	5 5	3 3
140	49 TO 109	1070 TB 1082	5	3
141	49 10 109	1C86 TO 1102	5	3
142	49 10 109	11C6 TO 1118	5	3
143	49 TG 109	111E TO 1130	5	3
144	49 TC 109		5	3 3

PATTERN	NCTES	RELATED TC NOTES	TEST	LENGTH
145	49 TO 109	1140 TO 1146	5	3
146	49 10 109	1198 TO 1206	5	3
147	49 TO 109	1210 TO 1242	5	3
148	49 TC 109	1242 TO 1270	5	3
149	49 TO 109	1270 TO 1282 1306 TO 1318	5 5	3 3
15C	49 TO 109	1306 TO 1318 1318 TO 1324	5	3
151	49 TO 109 49 TO 109	1316 TO 1324 1330 TO 1338	5	3
152 153	49 TO 109	1342 TO 1354	5	3
154	49 10 109	1378 TO 1386	5	3
155	49 10 109	1392 TO 1398	5	3
156	49 10 109	139 F TO 1430	5	3
157	49 TO 109	1438 TO 1454	5	3
158	49 TO 109	1466 TO 1472	5	3
159	49 TC 109	1476 TO 1482	5	3
160	49 TC 109	1510 TO 1526	5	3
161	49 TO 109	1534 TO 1546	5	3
162	49 10 109	1546 TO 1578	5	3
163	49 TO 1C9	1586 TO 1614	5	3
164	49 TC 109	163C TO 1640	5	3
165	49 TC 109	1644 TO 1648	5	3
166	49 10 109	1662 TO 1674	5	3
167	49 TO 109	1682 TO 1690	5	3
168	49 10 109	1710 TO 1722	5	3
169	49 10 109	1722 TO 1728	5	3
170	49 TO 109 49 TO 109	1738 TO 1752 1756 TO 1762	5 5	3 3
171 172	49 TO 109	1770 TO 1774	5	3
172 173	49 10 109	1798 TO 1814	5	3
174	49 10 109	1818 TO 1820	5	3
175	49 TO 109	1824 TO 1828	5	3
176	49 TO 109	1881 TO 1885	5	3
177	49 TO 109	1887 TO 1895	5	3
178	49 TO 109	1903 TC 1907	5	3
179	49 TO 109	1915 TO 1921	5	3
180	49 TC 109	1929 TO 1933	5	3
181	49 TG 109	1951 TO 1955	5	3
182	49 TG 109	1573 TO 1979	5	3
183	49 TO 109	1595 TO 20C3	5	3
184	49 10 109	2009 TO 2013	5	3
185	49 TO 109	2015 TO 2017	5	3
186	49 10 109	2019 TO 2021	5	3
187	49 TO 109	2021 TO 2024	5	3
188	49 TO 109 49 TO 109	2024 TO 2027 2063 TO 2075	5 5	3
189	49 TO 109 49 TO 109	2081 TO 2089	5	3 3
190 191	49 10 109	2109 TO 2113	5	3
152	49 TC 109	2119 TO 2123	5	3
193	49 TO 109	2147 TO 2155	5	3
194	49 10 109	2165 TO 2169	Ś	3
195	49 10 109	2175 TO 2181	5	3
• • •			-	-

PATTERN	NCTES	RELATED 1	C NOTES	TEST	LENGTH
196	49 TO 10		2181 10 2185		3
157	49 TO 10		2191 TO 2194 2253 TO 2257	5	3
198	49 TO 10		2253 TO 2257 2257 TO 2263	5 5	3
1 9 9 200	49 TO 10		2275 TO 2279	5	3 3
201	49 10 10		2291 TO 2297	5	3
202	49 TO 10		2297 10 2301	5	3
203	49 70 10		2323 TO 2327	5	3
203	49 TC 10		2343 TO 2347	5	3
205	49 10 10		2351 TO 2359	5	3
206	49 TC 10		2359 TO 2363	5	3 3
207	49 TO 10		2367 TO 2375	5	3
208	49 TO 10		2391 TO 2403	5	3
209	49 10 10		2403 TO 2411	5	3
210	49 TO 10	9	2411 TO 2419	5	3
211	49 TO 10	9	2439 TO 2445	5	3
212	49 TC 10		2445 TO 2448	5	3
213	49 10 10		2453 TO 2457	5	3
214	49 TO 10		2457 TO 2459	5	3
215	49 TO 10		2479 TO 2487	5	3
716	49 10 10		2489 TO 2495	5	3
217	49 10 10		2503 TO 2513	5	3
718	49 10 10		2513 TO 2516	5	3
219	49 TO 10		2516 TO 2519	5	3
220	49 TO 10		2519 TO 2531	5	3
721	49 TO 10		2533 TO 2537	5	3
227	49 TO 10		2537 10 2543	5	3
223	49 10 10		2555 TO 2559	5	3
224	49 TO 10		2561 TO 2565	5 5	3 3
225	49 TO 10		2565 TO 2567 2567 TO 2599	5 5	3
226 227	49 TO 10		2599 10 2607		3
228	49 10 10		2613 10 2619	5	3
229	49 TO 10		2627 TO 2631	5	3
230	49 10 10		2635 TO 2645	5	3
231	49 TO 10		2657 TO 2661	5	3
232	49 TO 10		2661 TO 2663	5	3
233	49 TO 10		2663 TO 2683	5	3
234	49 TO 10		2687 TO 2695		3
235	49 TO 10		2707 TO 2711		3
23 <i>6</i>	49 10 10		2727 TO 2733		3
237	49 10 10		2739 TO 2751	5	3
238	49 TO 10		2755 TO 2761	5	3
239	49 TO 10		2763 10 2767	5	3
24C	49 70 10	9	2769 TO 2775		3
741	49 TO 10		2785 TO 2791	5	3
742	49 TO 10		2797 TO 2801	5	3
243	49 TO 10		28C1 TO 2805	5	3
244	49 TC 10		2805 TO 2807		. 3
**** FCR		1. SEE 3. SEE			



FATTERN	NCTES	RELATED TO	NOT	ES	TEST	LENGTH
**** FCR	121 TO 145		37 10 49 10	73 109	ABOVE ***	
**** FCR	157 TO 217 169 TO 241	• 355	373 10	421	5	3
245 246	169 10 241		589 10	705	5	3
247	169 TO 241		709 TO	765	5	3
748	169 10 241			1190	5	3
249	169 TO 241		1190 TO	1202	5	3
250	169 TO 241		1302 TO	1314	5	3
251	169 TG 241			1374	5	3 3 3 3 3 3 3
252	169 TO 241			1470	5	3
253	169 TO 241			1542	5	3
254	169 10 241			1772	5	3
255	169 TO 241		1895 TO	1903	5	3
256	169 TO 241		1943 TO	1951	5	3
257	169 TO 241		2051 TO		5	3
258	169 TO 241			2145	5	3
259	169 TO 241			2237	5	3
260	169 TO 241		2267 TO	2275	5	3
261	169 TO 241			2323	5	3
262	169 TO 241		2339 TO	2345	5	3
263	169 TO 241		2429 TO	2434	5	3 3 3 3 3
264	169 TO 241		2434 TO	2439	5	3
265	169 TO 241		2452 TO	2455	5	3 3 3
766	169 10 241		2467 TO	2477	5	3
767	169 TO 241		2559 TO	2563	5	3
268	169 TO 241		2611 TO	2615	5	3
769	169 TO 241		2619 TO	2625	5	3
27C	169 TO 241		2625 TO	2629	5	3 3
271	169 10 241			2651	5	3
272	169 TO 241			2785	5	3
<i>2</i> 73	373 TO 421		1166 TO	1178	5	3
274	373 TC 421		1350 TO	1370	5	3
275	373 TO 421			1466	5	3
276	373 10 421		1518 TO	1534	5	3
277	373 TO 421			1901	5	3
278	373 10 421			2055	5	3
279	273 TO 421		2123 TO	2139	5	3
28C	373 10 421		2219 TO		5	3
281	373 TO 421			2273	5	3
282	373 TO 421			2339	5	3
283	373 10 421			2475	5	3
284 505	373 TO 421			2547 2561	5 5	3 3
285 264	373 TO 421 373 TO 421			2611	5	3
286 267	373 TO 421 373 TO 421		2615 TO		5	3
2E7	373 TO 421		2639 TO		5	3
288 **** FCR	409 10 445	• SEF	49 10		ABOVE ***	_
**** FCR	421 TO 481		37 TO	73	ABOVE ***	
4*** FCR	445 TO 493		49 10	109	ABOVE ***	
4*** FCR	481 TC 505		37 TO	73		
4+++ FCR	493 TO 517		49 10	109		· · ·

#### FOR 529 TO 589. 289	PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
790	**** FOR	529 TO 589	• SEE			**
### FCR 589 TO 709, SEE 373 TO 421 ABOVE **** ### FCR 613 TO 733. SEE 541 TO 613 ABOVE **** ### FCR 709 TO 765. SEE 373 TO 421 ABOVE **** ### FCR 709 TO 765. SEE 373 TO 421 ABOVE **** ### FCR 709 TO 765. SEE 49 TO 109 ABOVE **** #### FCR 781 TO 797. SEE 37 TO 73 ABOVE **** #### FCR 781 TO 797. SEE 37 TO 73 ABOVE **** #### FCR 789 TO 805. SEE 49 TO 109 ABOVE **** #### FCR 825 TO 837. SEF 37 TO 73 ABOVE **** #### FCR 821 TO 823. SEE 37 TO 73 ABOVE **** #### FCR 821 TO 853. SEE 37 TO 73 ABOVE **** #### FCR 821 TO 853. SEE 37 TO 73 ABOVE **** #### FCR 821 TO 869. SEE 49 TO 109 ABOVE **** #### FCR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FCR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FCR 902 TO 914. SEE 37 TO 73 ABOVE **** #### FCR 902 TO 914. SEE 37 TO 73 ABOVE **** #### FCR 902 TO 942. SEE 49 TO 109 ABOVE **** #### FCR 942 TO 948. SEF 49 TO 109 ABOVE **** #### FCR 942 TO 948. SEF 49 TO 109 ABOVE **** #### FCR 942 TO 948. SEF 49 TO 109 ABOVE **** #### FCR 956 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 956 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 962 TO 570. SEE 37 TO 73 ABOVE **** #### FCR 970 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 100 TO 1140. SEE 37 TO 73 ABOVE **** ##### FCR 1100 TO 1140. SEE 37 TO 73 ABOVE **** ################################	289					3
**** FCR 569 TO 709.	79 0	541 TG 613				
**** FCR 613 TO 773, SEE 541 TO 613 ABOVE **** **** FCR 723 TO 773, SEE 49 TO 109 ABOVE **** **** FCR 781 TO 797, SEE 49 TO 109 ABOVE **** **** FCR 781 TO 797, SEE 49 TO 109 ABOVE **** **** FCR 787 TO 821, SEE 37 TO 73 ABOVE **** **** FCR 617 TO 821, SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853, SEE 49 TO 109 ABOVE **** **** FCR 821 TO 869, SEE 49 TO 109 ABOVE **** **** FCR 821 TO 869, SEE 49 TO 109 ABOVE **** **** FCR 823 TO 869, SEE 49 TO 109 ABOVE **** **** FCR 823 TO 869, SEE 49 TO 109 ABOVE **** **** FCR 823 TO 888, SEE 49 TO 109 ABOVE **** **** FCR 902 TO 914, SEE 37 TO 73 ABOVE **** **** FCR 902 TO 914, SEE 37 TO 73 ABOVE **** **** FCR 902 TO 942, SEE 49 TO 109 ABOVE **** **** FCR 902 TO 942, SEE 37 TO 73 ABOVE **** **** FCR 942 TO 948, SEF 49 TO 109 ABOVE **** **** FCR 956 TO 962, SEE 37 TO 73 ABOVE **** **** FCR 956 TO 962, SEE 37 TO 73 ABOVE **** **** FCR 956 TO 962, SEE 37 TO 73 ABOVE **** **** FCR 956 TO 966, SEE 49 TO 109 ABOVE **** **** FCR 970 TO 1002, SEE 49 TO 109 ABOVE **** **** FCR 970 TO 1002, SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022, SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1024, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1024, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1026, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1042, SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1042, SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1166, SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1166, SEE 37 TO 73 ABOVE **** **** FCR 106 TO 1102, SEE 37 TO 73 ABOVE **** **** FCR 1166 TO 1102, SEE 37 TO 73 ABOVE **** **** FCR 1166 TO 1104, SEE 37 TO 73 ABOVE **** **** FCR 1166 TO 1166, SEE 37 TO 73 ABOVE **** **** FCR 1166 TO 1170, SEE 37 TO 73 ABOVE **** **** FCR 1166 TO 1178, SEE 49 TO 109 ABOVE **** **** FCR 1166 TO 1178,	291	541 TO 613				_
#### FCR 709 10 765, SEE 373 10 421 ABOVE **** #*## FCR 733 TO 773, SEE 49 TO 109 ABOVE **** #### FCR 789 TO 805, SEE 49 TO 109 ABOVE **** #### FCR 767 TO 821, SEF 37 TO 73 ABOVE **** #### FCR 821 TO 653, SEE 49 TO 109 ABOVE **** #### FCR 821 TO 653, SEE 37 TO 73 ABOVE **** #### FCR 821 TO 653, SEE 37 TO 73 ABOVE **** #### FCR 821 TO 869, SEE 49 TO 109 ABOVE **** #### FCR 827 TO 8896, SEE 49 TO 109 ABOVE **** #### FCR 870 TO 8896, SEE 49 TO 109 ABOVE **** #### FCR 902 TO 914, SEE 37 TO 73 ABOVE **** #### FCR 902 TO 914, SEE 37 TO 73 ABOVE **** #### FCR 902 TO 948, SEF 49 TO 109 ABOVE **** #### FCR 942 TO 948, SEF 49 TO 109 ABOVE **** #### FCR 942 TO 948, SEF 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 952 TO 566, SEE 49 TO 109 ABOVE **** #### FCR 970 TO 1002. SEE 37 TO 73 ABOVE **** #### FCR 978 TO 1014, SEE 37 TO 73 ABOVE **** #### FCR 978 TO 1014, SEE 37 TO 73 ABOVE **** ##### FCR 1022 TO 1022, SEE 49 TO 109 ABOVE **** ##### FCR 1025 TO 1002. SEE 49 TO 109 ABOVE **** ##### FCR 1026 TO 1042, SEE 37 TO 73 ABOVE **** #################################	**** FCR	589 TO 709	• SEE		1 ABOVE **	**
**** FCR 733 TO 773, SEE 49 TO 109 ABOVE **** **** FCR 781 TO 797, SEE 37 TO 73 ABOVE **** **** FCR 757 TO 821. SEE 37 TO 73 ABOVE **** **** FCR 757 TO 821. SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853. SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853. SEE 37 TO 73 ABOVE **** **** FCR 827 TO 869. SEE 49 TO 109 ABOVE **** **** FCR 827 TO 888. SEE 49 TO 109 ABOVE **** **** FCR 820 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 942. SEE 49 TO 109 ABOVE **** **** FCR 942 TO 948. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 950. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 950. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 950. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 950. SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1002. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 104 TO 1166. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1166. SEE 37 TO 73 ABOVE **** **** FCR 1104 TC 1110. SEE 37 TO 73 ABOVE **** **** FCR 1106 TO 1170. SEE 37 TO 73 ABOVE **** **** FCR 1106 TO 1170. SEE 3	**** FCF	613 TO 733	• SEE	541 TO 61	3 ABOVE **	**
**** FCR 723 TO 773, SEE 49 TO 109 ABOVE **** **** FCR 781 TO 797, SEE 37 TO 73 ABOVE **** **** FCR 787 TO 821. SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853. SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853. SEE 37 TO 73 ABOVE **** **** FCR 821 TO 853. SEE 37 TO 73 ABOVE **** **** FCR 827 TO 889. SEE 49 TO 109 ABOVE **** **** FCR 827 TO 889. SEE 49 TO 109 ABOVE **** **** FCR 820 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 902 TO 946. SEE 49 TO 109 ABOVE **** **** FCR 902 TO 946. SEE 49 TO 109 ABOVE **** **** FCR 942 TO 948. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 952 TO 956. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1024. SEE 37 TO 73 ABOVE **** **** FCR 102 TO 1022. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1034. SEE 49 TO 109 ABOVE **** **** FCR 102 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 1104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 1104 TO 1100. SEE 37 TO 73 ABOVE **** **** FCR 1104 TO 1100. SEE	444* FCR	709 10 765	• SEF	373 10 42	1 ABOVE **	**
#### FCR 781 TO 797. #### FCR 789 TO 805. SEE 49 TO 109 ABOVE **** #### FCR 787 TO 821. SEF 37 TO 73 ABOVE **** #### FCR 8C5 TO 837. SEF 49 TO 109 ABOVE **** #### FCR 821 TO 853. SEE 37 TO 73 ABOVE **** #### FCR 821 TO 869. SEE 49 TO 109 ABOVE **** #### FCR 821 TO 869. SEE 49 TO 109 ABOVE **** #### FCR 823 TO 870. SEE 37 TO 73 ABOVE **** #### FCR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FCR 902 TO 914. SEE 37 TO 73 ABOVE **** #### FCR 902 TO 914. SEE 37 TO 73 ABOVE **** #### FCR 902 TO 942. SEF 49 TO 109 ABOVE **** #### FCR 930 TO 942. SEF 49 TO 109 ABOVE **** #### FCR 940 TO 952. SEE 37 TO 73 ABOVE **** #### FCR 940 TO 952. SEE 37 TO 73 ABOVE **** #### FCR 952 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 955 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 958 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 958 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 978 TO 1002. SEE 37 TO 73 ABOVE **** #### FCR 978 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 1021 TO 1022. SEE 37 TO 73 ABOVE **** #### FCR 1024 TO 1026. SEE 37 TO 73 ABOVE **** #### FCR 1024 TO 1034. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 104 TO 1134. SEE 37 TO 73 ABOVE **** #### FCR 106 TO 1102. SEE 37 TO 73 ABOVE **** ##### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** ##### FCR 1106 TO 1118. SEE 37 TO 73 ABOVE **** ##### FCR 1106 TO 1116. SEE 37 TO 73 ABOVE **** ################################	4*** FCR			49 TO 10	9 ABOVE **	**
#### FOR 789 TO 805. #### FOR 797 TO 821. #### FOR 8C5 TO 837. #### FOR 8C1 TO 653. #### FOR 8C1 TO 653. #### FOR 8C1 TO 853. #### FOR 8C1 TO 869. #### FOR 8C1 TO 898. #### FOR 8C7 TO 898. #### FOR 902 TO 914. #### FOR 902 TO 914. #### FOR 902 TO 914. #### FOR 903 TO 942. #### FOR 931 TO 942. #### FOR 942 TO 948. #### FOR 942 TO 948. #### FOR 952 TO 952. #### FOR 952 TO 956. #### FOR 952 TO 956. #### FOR 952 TO 956. #### FOR 958 TO 966. #### FOR 959 TO 959. ##### FOR 959 TO 959. ##################################	**** FCR		• SEE	37 TO 7	3 ABOVE **	**
#### FCR 797 TO 821. #### FCR 825 TO 837. #### FCR 825 TO 837. #### FCR 821 TO 853. #### FCR 821 TO 853. #### FCR 821 TO 869. #### FCR 827 TO 898. #### FCR 827 TO 898. #### FCR 827 TO 898. #### FCR 902 TO 914. #### FCR 902 TO 914. #### FCR 902 TO 914. #### FCR 902 TO 942. #### FCR 930 TO 942. #### FCR 942 TO 948. #### FCR 956 TO 962. #### FCR 956 TO 962. #### FCR 956 TO 962. #### FCR 958 TO 966. #### FCR 958 TO 966. #### FCR 958 TO 966. #### FCR 978 TO 1014. #### FCR 978 TO 1022. #### FCR 1021 TO 1034. #### FCR 1024 TO 1034. #### FCR 1034 TO 1036. ##### FCR 1034 TO 1036. ####################################	4444 FOR			49 TO 10	9 ABOVE **	**
#### FOR 825 TO 837. SEF 45 TO 109 ABOVE **** #### FOR 821 TO 853. SEE 37 TO 73 ABOVE **** #### FOR 827 TO 869. SEE 49 TO 109 ABOVE **** #### FOR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FOR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FOR 870 TO 898. SEE 49 TO 109 ABOVE **** #### FOR 970 TO 942. SEE 49 TO 109 ABOVE **** #### FOR 530 TO 942. SEE 49 TO 109 ABOVE **** #### FOR 534 TO 546. SEE 37 TO 73 ABOVE **** #### FOR 942 TO 948. SEF 49 TO 109 ABOVE **** #### FOR 952 TO 956. SEE 37 TO 73 ABOVE **** #### FOR 952 TO 956. SEE 37 TO 73 ABOVE **** #### FOR 952 TO 966. SEE 49 TO 109 ABOVE **** #### FOR 566 TO 962. SEE 37 TO 73 ABOVE **** #### FOR 566 TO 962. SEE 37 TO 73 ABOVE **** #### FOR 570 TO 1002. SEF 49 TO 109 ABOVE **** #### FOR 570 TO 1002. SEF 49 TO 109 ABOVE **** #### FOR 102 TO 1022. SEE 49 TO 109 ABOVE **** #### FOR 102 TO 1022. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1026. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1026. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1026. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1026. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1062. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1062. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1062. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1062. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1062. SEE 49 TO 109 ABOVE **** #### FOR 104 TO 1100. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1100. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1110. SEE 37 TO 73 ABOVE **** #### FOR 104 TO 1110. SEE 37 TO 73 ABOVE **** #### FOR 116 TO 1100. SEE 37 TO 73 ABOVE **** #### FOR 116 TO 116. SEE 37 TO 73 ABOVE **** ##### FOR 116 TO 116. SEE 37 TO 73 ABOVE **** ##### FOR 116 TO 116. SEE 37 TO 73 ABOVE **** ##### FOR 116 TO 116. SEE 37 TO 73 ABOVE **** ################################			• SEF	37 TO 7	3 ABOVE **	**
**** FCR 821 TO 853.				49 TO 10	S ABOVE **	**
#### FCF						**
#### FCR						**
**** FOR 870 TO 898.						**
**** FCR 902 TO 914. SEE 37 TO 73 ABOVE **** **** FCR 530 TO 942. SEE 49 TO 109 ABOVE **** **** FCR 934 TO 946. SEF 37 TO 73 ABOVE **** **** FCR 942 TO 948. SEF 49 TO 109 ABOVE **** **** FCR 946 TO 952. SEE 37 TO 73 ABOVE **** **** FCR 952 TO 956. SEE 37 TO 73 ABOVE **** **** FCR 956 TO 962. SEE 37 TO 73 ABOVE **** **** FCR 958 TO 966. SEE 49 TO 109 ABOVE **** **** FCR 962 TO 970. SEE 37 TO 73 ABOVE **** **** FCR 970 TO 1002. SEE 49 TO 109 ABOVE **** **** FCR 970 TO 1002. SEE 49 TO 109 ABOVE **** **** FCR 1002 TO 1020. SEE 49 TO 109 ABOVE **** **** FCR 1002 TO 1020. SEE 49 TO 109 ABOVE **** **** FCR 1002 TO 1020. SEE 49 TO 109 ABOVE **** **** FCR 1002 TO 1020. SEE 49 TO 109 ABOVE **** **** FCR 1014 TO 1026. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** **** FCR 1034 TO 1050. SEE 49 TO 109 ABOVE **** **** FCR 104 TO 1082. SEE 49 TO 109 ABOVE **** **** FCR 106 TO 1102. SEE 49 TO 109 ABOVE **** **** FCR 1104 TC 1110. SEE 37 TO 73 ABOVE **** **** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** ***** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** ***** FCR 1110 TO 1126. SEE 37 TO					-	**
#### FCR \$30 TO 942. SEF 49 TO 109 ABOVE #### #### FCR \$34 TO 948. SEF 37 TO 73 ABOVE #### #### FCR \$46 TO 952. SEE 37 TO 73 ABOVE #### #### FCR \$46 TO 952. SEE 37 TO 73 ABOVE #### #### FCR \$52 TO \$56. SEE 49 TO 109 ABOVE #### #### FCR \$52 TO \$56. SEE 49 TO 109 ABOVE #### #### FCR \$58 TO 966. SEE 49 TO 109 ABOVE #### #### FCR \$58 TO 966. SEE 49 TO 109 ABOVE #### #### FCR \$62 TO \$70. SEE 37 TO 73 ABOVE #### #### FCR \$70 TO 1002. SEF 49 TO 109 ABOVE #### #### FCR \$70 TO 1002. SEF 49 TO 109 ABOVE #### #### FCR 1CC2 TO 1022. SEE 49 TO 109 ABOVE #### #### FCR 1CC2 TO 1022. SEE 49 TO 109 ABOVE #### #### FCR 1CC2 TO 1034. SEE 37 TO 73 ABOVE #### #### FCR 1CC2 TO 1034. SEE 49 TO 109 ABOVE #### #### FCR 1CC2 TO 1042. SEE 37 TO 73 ABOVE #### #### FCR 1CC2 TO 1042. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### #### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### ##### FCR 1CC4 TO 1CC0. SEE 37 TO 73 ABOVE #### ################################			•			**
#### FCR 942 TO 948. SEF 49 TO 109 ARGVE #*** #### FCR 942 TO 948. SEF 49 TO 109 ARGVE #*** #### FCR 952 TO 956. SEE 37 TO 73 ARGVE #*** #### FCR 952 TO 956. SEE 37 TO 73 ARGVE #*** #### FCR 956 TO 962. SEE 37 TO 73 ARGVE #*** #### FCR 958 TO 966. SEE 49 TO 109 ARGVE #*** #### FCR 962 TO 970. SEE 37 TO 73 ARGVE #*** #### FCR 962 TO 970. SEE 37 TO 73 ARGVE #*** #### FCR 978 TO 1002. SEE 49 TO 109 ARGVE #*** #### FCR 1002 TO 1022. SEE 49 TO 109 ARGVE #*** #### FCR 1014 TO 1026. SEE 37 TO 73 ARGVE #*** #### FCR 1022 TO 1034. SEE 37 TO 73 ARGVE #*** #### FCR 1024 TO 1034. SEE 37 TO 73 ARGVE #*** #### FCR 1024 TO 1050. SEE 49 TO 109 ARGVE #*** #### FCR 1034 TO 1050. SEE 49 TO 109 ARGVE #*** #### FCR 1034 TO 1050. SEE 49 TO 109 ARGVE #*** #### FCR 1034 TO 1050. SEE 37 TO 73 ARGVE #*** #### FCR 1034 TO 1082. SEE 49 TO 109 ARGVE #*** #### FCR 106 TO 1082. SEE 49 TO 109 ARGVE #*** #### FCR 106 TO 1102. SEE 37 TO 73 ARGVE #*** #### FCR 106 TO 1110. SEE 37 TO 73 ARGVE #*** #### FCR 1104 TC 1110. SEE 37 TO 73 ARGVE #*** #### FCR 1106 TO 1118. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1118. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1134. SEE 37 TO 73 ARGVE #*** #### FCR 1106 TO 1134. SEE 37 TO 73 ARGVE #*** #### FCR 1106 TO 1134. SEE 37 TO 73 ARGVE #*** #### FCR 1106 TO 1134. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1136. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1136. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1136. SEE 49 TO 109 ARGVE #*** #### FCR 1106 TO 1136. SEE 37 TO 73 ARGVE #*** #### FCR 1106 TO 1136. SEE 37 TO 73 ARGVE #*** ##### FCR 1106 TO 1136. SEE 37 TO 73 ARGVE #*** ##### FCR 1136 TO 1146. SEE 37 TO 73 ARGVE #*** ################################						**
#### FCR						**
#### FCR						
#### FCR 952 TO 956. SEE 49 TO 109 ABOVE **** #### FCR 956 TO 962. SEE 37 TO 73 ABOVE **** #### FCR 958 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 958 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 962 TO 970. SEE 49 TO 109 ABOVE **** #### FCR 978 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE **** #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE **** #### FCR 1002 TO 1024. SEE 37 TO 73 ABOVE **** #### FCR 1004 TO 1034. SEE 49 TO 109 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1024 TO 1050. SEE 49 TO 109 ABOVE **** #### FCR 1034 TO 1050. SEE 49 TO 109 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1104 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1104 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1104 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1104 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1104 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1104 TO 1114. SEE 49 TO 109 ABOVE **** #### FCR 1105 TO 1134. SEE 49 TO 109 ABOVE **** #### FCR 1108 TO 1134. SEE 49 TO 109 ABOVE **** #### FCR 1134 TO 1140. SEE 37 TO 73 ABOVE **** #### FCR 1136 TO 1136. SEE 49 TO 109 ABOVE **** #### FCR 1136 TO 1136. SEE 49 TO 109 ABOVE **** #### FCR 1136 TO 1140. SEE 37 TO 73 ABOVE **** #### FCR 1136 TO 1136. SEE 49 TO 109 ABOVE **** #### FCR 1136 TO 1136. SEE 49 TO 109 ABOVE **** #### FCR 1136 TO 1140. SEE 37 TO 73 ABOVE **** ##### FCR 1140 TO 1166. SEE 49 TO 109 ABOVE **** #### FCR 1158 TO 1170. SEE 170 49 ABOVE **** ################################						_
#### FCR 956 TO 966. SEE 37 TO 73 ABOVE **** #### FCR 958 TO 966. SEE 49 TO 109 ABOVE **** #### FCR 962 TO 970. SEE 37 TO 73 ABOVE **** #### FCR 970 TO 1002. SEE 49 TO 109 ABOVE **** #### FCR 978 TO 1014. SEE 37 TO 73 ABOVE **** #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE **** #### FCR 1002 TO 1026. SEE 37 TO 73 ABOVE **** #### FCR 1014 TO 1026. SEE 37 TO 73 ABOVE **** #### FCR 1022 TO 1034. SEE 49 TO 109 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1034 TO 1050. SEE 37 TO 73 ABOVE **** #### FCR 1034 TO 1050. SEE 37 TO 73 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1074 TO 1086. SEE 37 TO 73 ABOVE **** #### FCR 1074 TO 1086. SEE 37 TO 73 ABOVE **** #### FCR 1106 TO 1110. SEE 37 TO 73 ABOVE **** #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1130 TO 1140. SEE 37 TO 73 ABOVE **** #### FCR 1140 TO 1146. SEE 37 TO 73 ABOVE **** #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** #### FCR 1166 TO 1178. SEE 109 TO 241 ABOVE **** ##### FCR 1166 TO 1178. SEE 109 TO 241 ABOVE **** ################################	,					
**** FCR \$58 TO \$66.						
#### FCR 562 TO 570. SFE 37 TO 73 ABOVE #### #### FCR 570 TO 1002. SEF 49 TO 109 ABOVE #### #### FCR 978 TO 1014. SEF 37 TO 73 ABOVE #### #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE #### #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE #### #### FCR 1002 TO 1024. SEE 37 TO 73 ABOVE #### #### FCR 1002 TO 1034. SEE 49 TO 109 ABOVE #### #### FCR 1002 TO 1042. SEE 37 TO 73 ABOVE #### #### FCR 1004 TO 1000. SEE 37 TO 73 ABOVE #### #### FCR 1004 TO 1000. SEE 37 TO 73 ABOVE #### #### FCR 1004 TO 1000. SEE 37 TO 73 ABOVE #### #### FCR 1004 TO 1000. SEE 49 TO 109 ABOVE #### #### FCR 1004 TO 1100. SEE 37 TO 73 ABOVE #### #### FCR 1104 TO 1110. SFE 37 TO 73 ABOVE #### #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE #### #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE #### #### FCR 1106 TO 1134. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1126. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1140. SEE 49 TO 109 ABOVE #### #### FCR 1134 TO 1134. SEE 49 TO 109 ABOVE #### #### FCR 1134 TO 1140. SEE 37 TO 73 ABOVE #### #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### ##### FCR 1140 TO 1146. SEE 541 TO 613 ABOVE #### ##### FCR 1166 TO 1170. SEE 170 49 ABOVE #### ################################						
#### FOR 970 TO 1002. #### FCR 978 TO 1014. #### FCR 1002 TO 1022. #### FCR 1004 TO 1026. #### FCR 1004 TO 1034. #### FCR 1006 TO 1042. #### FCR 1006 TO 1042. #### FCR 1006 TO 1042. #### FCR 1007 TO 1082. #### FCR 1007 TO 1082. #### FCR 1007 TO 1082. #### FCR 1008 TO 1102. #### FCR 1008 TO 1102. #### FCR 1008 TO 1102. #### FCR 1104 TO 1110. #### FCR 1106 TO 1118. #### FCR 1106 TO 1118. #### FCR 1106 TO 1118. #### FCR 1109 ABOVE **** #### FCR 1108 TO 1134. #### FCR 1109 ABOVE **** #### FCR 1108 TO 1134. #### FCR 1109 ABOVE **** #### FCR 1108 TO 1134. #### FCR 1109 ABOVE **** #### FCR 1109 TO 1140. #### FCR 1130 TO 1140. #### FCR 1140 TO 1146. #### FCR 1140 TO 1146. #### FCR 1140 TO 1146. #### FCR 1140 TO 1166. #### FCR 1166 TO 1178. #### FCR 1166 TO 1178. #### FCR 1166 TO 1178. #### FCR 1178 TO 1190. ##### FCR 1182 TO 1198. #### FCR 1182 TO 1198.						-
#### FCR 978 TO 1014. SEE 37 TO 73 ABOVE **** #### FCR 1002 TO 1022. SEE 49 TO 109 ABOVE **** #### FCR 1014 TO 1026. SEE 37 TO 73 ABOVE **** #### FCR 1022 TO 1034. SEE 49 TO 109 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1026 TO 1042. SEE 37 TO 73 ABOVE **** #### FCR 1034 TO 1050. SEE 49 TO 109 ABOVE **** #### FCR 1042 TO 1070. SEE 37 TO 73 ABOVE **** #### FCR 1070 TO 1082. SEE 49 TO 109 ABOVE **** #### FCR 1074 TO 1086. SEE 37 TO 73 ABOVE **** #### FCR 1086 TO 1102. SEE 49 TO 109 ABOVE **** #### FCR 1106 TO 1110. SFF 37 TO 73 ABOVE **** #### FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** #### FCR 1118 TO 1130. SEE 49 TO 109 ABOVE **** #### FCR 1118 TO 1134. SEF 37 TO 73 ABOVE **** #### FCR 1130 TO 1140. SFF 37 TO 73 ABOVE **** #### FCR 1130 TO 1140. SFF 49 TO 109 ABOVE **** #### FCR 1140 TO 1146. SEF 37 TO 73 ABOVE **** #### FCR 1140 TO 1146. SEF 49 TO 109 ABOVE **** #### FCR 1140 TO 1146. SEF 49 TO 109 ABOVE **** #### FCR 1140 TO 1146. SEF 49 TO 109 ABOVE **** #### FCR 1140 TO 1166. SEF 49 TO 109 ABOVE **** #### FCR 1140 TO 1166. SEF 49 TO 109 ABOVE **** #### FCR 1146 TO 1166. SEF 49 TO 109 ABOVE **** #### FCR 1146 TO 1166. SEF 49 TO 109 ABOVE **** #### FCR 1146 TO 1170. SEF 170 49 ABOVE **** #### FCR 1158 TO 1170. SEF 170 421 ABOVE **** #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE **** #### FCR 1178 TO 1190. SEE 373 TO 421 ABOVE **** ################################	• -					
*** FCR 1CC2 TO 1022.						
#### FCR 1C14 TO 1026. SEE 37 TO 73 ABOVE #### #### FCR 1C22 TO 1034. SEE 49 TO 109 ABOVE #### #### FCR 1C26 TO 1C42. SEE 37 TO 73 ABOVE #### #### FCR 1C34 TO 1C50. SEE 49 TO 109 ABOVE #### #### FCR 1C34 TO 1C70. SEE 37 TO 73 ABOVE #### #### FCR 1C70 TO 1082. SEE 49 TO 109 ABOVE #### #### FCR 1C70 TO 1082. SEE 49 TO 109 ABOVE #### #### FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE #### #### FCR 1C86 TO 1102. SEE 49 TO 109 ABOVE #### #### FCR 1104 TC 1110. SEE 37 TO 73 ABOVE #### #### FCR 1106 TC 1118. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FCR 1110 TO 1140. SEE 37 TO 73 ABOVE #### #### FCR 1130 TO 1140. SEE 37 TO 73 ABOVE #### #### FCR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### ##### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### ##### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### ################################						
*** FCR 1C22 TO 1C34. SEE 49 TO 109 ABOVE **** *** FCR 1C26 TO 1C42. SEE 37 TO 73 ABOVE **** *** FCR 1C34 TC 1C50. SEE 49 TO 109 ABOVE **** *** FCR 1C42 TO 1C70. SEE 37 TO 73 ABOVE **** *** FCR 1C70 TO 1C82. SEE 49 TO 1C9 ABOVE **** *** FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE **** *** FCR 1C86 TO 1102. SEE 49 TO 109 ABOVE **** *** FCR 1104 TC 1110. SFF 37 TO 73 ABOVE **** *** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** *** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FCR 1118 TO 1130. SEE 49 TO 109 ABOVE **** *** FCR 1130 TO 1140. SEE 37 TO 73 ABOVE **** *** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1140 TO 1166. SEE 49 TO 109 ABOVE **** *** FCR 1140 TO 1166. SEE 541 TO 613 ABOVE **** *** FCR 1158 TO 1170. SEE 1 TO 49 ABOVE **** *** FCR 1166 TO 1178. SEE 169 TO 241 ABOVE **** *** FCR 1178 TC 1190. SEE 373 TO 421 ABOVE **** *** FCR 1178 TC 1190. SEE 373 TO 421 ABOVE ****						
**** FCR 1C26 TO 1C42. SEE 37 TO 73 ABOVE **** **** FOR 1C34 TO 1C50. SEE 49 TO 109 ABOVE **** **** FOR 1C42 TO 1C70. SEE 37 TO 73 ABOVE **** **** FCR 1C70 TO 1082. SEE 49 TO 1C9 ABOVE **** **** FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE **** **** FCR 1C86 TO 1102. SEE 49 TO 109 ABOVE **** **** FCR 1104 TC 1110. SFE 37 TO 73 ABOVE **** **** FCR 1106 TO 1118. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1130. SEE 49 TO 109 ABOVE **** **** FOR 1118 TO 1130. SEE 49 TO 109 ABOVE **** **** FOR 1126 TO 1134. SEF 37 TO 73 ABOVE **** **** FCR 1140 TO 1140. SFE 49 TO 109 ABOVE **** **** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** **** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** **** FCR 1140 TO 1166. SEE 541 TO 613 ABOVE **** **** FCR 1166 TO 1178. SEE 1 TO 49 ABOVE **** **** FCR 1166 TO 1178. SEE 169 TO 241 ABOVE **** **** FCR 1178 TO 1190. SEE 373 TO 421 ABOVE **** **** FOR 1178 TO 1190. SEE 541 TO 613 ABOVE **** **** FOR 1178 TO 1190. SEE 541 TO 613 ABOVE ****						
**** FGR 1C34 TC 1C50. SEE 49 TO 109 ABOVE **** **** FOR 1C42 TO 1C70. SEE 37 TO 73 ABOVE **** **** FCR 1C70 TO 1082. SEE 49 TO 1C9 ABOVE **** **** FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE **** **** FCR 1C86 TO 1102. SEE 49 TO 109 ABOVE **** **** FCR 1104 TC 1110. SFE 37 TO 73 ABOVE **** **** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FCR 1110 TO 1130. SEE 49 TO 109 ABOVE **** **** FOR 1118 TO 1130. SEE 49 TO 109 ABOVE **** **** FOR 1126 TO 1134. SEF 37 TO 73 ABOVE **** **** FCR 1140 TO 1140. SFE 49 TO 109 ABOVE **** **** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** **** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** **** FCR 1140 TO 1166. SEE 541 TO 613 ABOVE **** **** FCR 1166 TO 1178. SEE 169 TO 241 ABOVE **** **** FCR 1178 TO 1190. SEE 373 TO 421 ABOVE **** **** FOR 1178 TO 1190. SEE 373 TO 421 ABOVE **** **** FOR 1178 TO 1190. SEE 541 TO 613 ABOVE ****						
**** FOR 1C42 TO 1C70. SEE 37 TO 73 ABOVE **** **** FCR 1C70 TO 1082. SEE 49 TO 1C9 ABOVE **** **** FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE **** **** FCR 1C86 TO 1102. SEE 49 TO 109 ABOVE **** **** FCR 1104 TC 1110. SFE 37 TO 73 ABOVE **** **** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** **** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** **** FOR 1118 TO 1130. SEE 49 TO 109 ABOVE **** **** FOR 1126 TO 1134. SEF 37 TO 73 AROVE **** **** FCR 1130 TO 1140. SEE 37 TO 73 AROVE **** **** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** **** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** **** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** **** FCR 1146 TO 1166. SEE 49 TO 109 ABOVE **** **** FCR 1146 TO 1166. SEE 541 TO 613 ABOVE **** **** FCR 1166 TO 1178. SEE 1 TO 49 ABOVE **** **** FCR 1166 TO 1178. SEE 169 TO 241 ABOVE **** **** FOR 1178 TC 1190. SEE 373 TO 421 ABOVE **** **** FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ****						
*** FCR 1C70 TO 1082. SEE 49 TO 1C9 ABOVE **** *** FCR 1C74 TO 1C86. SEF 37 TO 73 ABOVE **** *** FCR 1C86 TO 1102. SEF 49 TO 109 ABOVE **** *** FCR 1104 TC 1110. SFF 37 TO 73 ABOVE **** *** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** *** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FOR 1118 TO 1130. SEE 49 TO 109 ABOVE **** *** FOR 1126 TO 1134. SEF 37 TO 73 ABOVE **** *** FOR 1130 TO 1140. SFF 49 TO 109 ABOVE **** *** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** *** FCR 1140 TO 1146. SEF 49 TO 109 ABOVE **** *** FCR 1140 TO 1146. SEF 49 TO 109 ABOVE **** *** FCR 1140 TO 1166. SEF 49 TO 109 ABOVE **** *** FCR 1142 TO 1158. SEF 37 TO 73 ABOVE **** *** FCR 1146 TO 1166. SEF 541 TO 613 ABOVE **** *** FCR 1166 TO 1170. SEF 1 TO 49 ABOVE **** *** FCR 1166 TO 1178. SEF 169 TO 241 ABOVE **** *** FOR 1178 TC 1190. SEE 373 TO 421 ABOVE **** *** FOR 1178 TC 1190. SEE 373 TO 421 ABOVE ****						
#### FCR 1C74 TO 1C86. SEE 37 TO 73 ABOVE #### #### FGR 1C86 TO 1102. SEE 49 TO 109 ABOVE #### #### FCR 1104 TC 1110. SFF 37 TO 73 ABOVE #### #### FCR 1106 TC 1118. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FGR 1118 TO 1130. SEE 49 TO 109 ABOVE #### #### FOR 1126 TO 1134. SEF 37 TO 73 ABOVE #### #### FGR 1130 TO 1140. SFF 49 TO 109 ABOVE #### #### FCR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1140 TC 1146. SEE 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEE 49 TO 109 ABOVE #### #### FCR 1166 TO 1170. SEE 37 TO 73 ABOVE #### #### FCR 1166 TO 1178. SEE 37 TO 421 ABOVE #### #### FCR 1166 TO 1178. SEE 373 TO 421 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### #### FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ####						
#### FGR 1C86 TO 1102. SEE 49 TO 109 ABOVE #### #### FCR 1104 TC 1110. SFF 37 TO 73 ABOVE #### #### FCR 1106 TC 1118. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FGR 1118 TO 1130. SEE 49 TO 109 ABOVE #### #### FGR 1118 TO 1134. SEF 37 TO 73 ABOVE #### #### FGR 1130 TO 1140. SFE 49 TO 109 ABOVE #### #### FGR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1134 TC 1146. SEE 49 TO 109 ABOVE #### #### FGR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FGR 1146 TO 1166. SEE 49 TO 109 ABOVE #### #### FCR 1146 TO 1166. SEE 541 TO 613 ABOVE #### #### FCR 1166 TO 1178. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEE 373 TO 421 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### ################################						**
*** FCR 1104 TC 1110. SFF 37 TO 73 ABOVE **** *** FCR 1106 TC 1118. SEE 49 TO 109 ABOVE **** *** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FCR 1118 TO 1130. SEE 49 TO 109 ABOVE **** *** FOR 1126 TO 1134. SEF 37 TO 73 ABOVE **** *** FOR 1130 TO 1140. SFE 49 TO 109 ABOVE **** *** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** *** FCR 1140 TC 1146. SEE 49 TO 109 ABOVE **** *** FCR 1142 TO 1158. SEE 37 TO 73 ABOVE **** *** FCR 1146 TO 1166. SEE 49 TO 109 ABOVE **** *** FCR 1146 TO 1166. SEE 541 TO 613 ABOVE **** *** FCR 1166 TO 1178. SEE 1 TO 49 ABOVE **** *** FCR 1166 TO 1178. SEE 373 TO 421 ABOVE **** *** FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ****						**
#### FCR 1106 TC 1118. SEE 49 TO 109 ABOVE #### #### FCR 1110 TO 1126. SEE 37 TO 73 ABOVE #### #### FGR 1118 TO 1130. SEE 49 TO 109 ABOVE #### #### FGR 1118 TO 1134. SEF 37 TO 73 ABOVE #### #### FGR 1130 TO 1140. SFE 49 TO 109 ABOVE #### #### FGR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1134 TC 1146. SEE 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEE 541 TO 613 ABOVE #### #### FCR 1166 TO 1178. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEE 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### ##### FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ####						
*** FCR 1110 TO 1126. SEE 37 TO 73 ABOVE **** *** FGR 1118 TO 1130. SEE 49 TO 109 ABOVE **** *** FOR 1126 TO 1134. SEF 37 TO 73 AROVE **** *** FGR 1130 TO 1140. SEF 49 TO 109 ABOVE **** *** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** *** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** *** FCR 1142 TO 1158. SEE 37 TO 73 ABOVE **** *** FCR 1146 TO 1166. SEE 37 TO 73 ABOVE **** *** FCR 1158 TO 1170. SEE 1 TO 613 ABOVE **** *** FCR 1166 TO 1178. SEF 169 TO 241 ABOVE **** *** FOR 1178 TO 1190. SEE 373 TO 421 AROVE **** *** FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ****			•			
*** FGR 1118 TO 1130. SEE 49 TO 109 ABOVE **** *** FOR 1126 TO 1134. SEF 37 TO 73 AROVE **** *** FGR 1130 TO 1140. SFF 49 TO 109 ABOVE **** *** FCR 1134 TC 1142. SEF 37 TO 73 ABOVE **** *** FCR 1140 TO 1146. SEE 49 TO 109 ABOVE **** *** FCR 1142 TO 1158. SEE 37 TO 73 ABOVE **** *** FCR 1146 TO 1166. SEE 541 TO 613 ABOVE **** *** FCR 1158 TO 1170. SEE 1 TO 49 ABOVE **** *** FCR 1166 TO 1178. SEF 169 TO 241 ABOVE **** *** FOR 1178 TO 1190. SEE 373 TO 421 AROVE **** *** FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ****						
#### FOR 1126 TO 1134. SEF 37 TO 73 AROVE #### #### FOR 1130 TO 1140. SFF 49 TO 109 ABOVE #### #### FCR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1140 TO 1146. SEF 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 49 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEF 37 TO 73 ABOVE #### #### FCR 1158 TO 1170. SEF 1 TO 613 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TO 1190. SEF 373 TO 421 ABOVE #### ################################						
#### FGR 1130 TO 1140. SFE 49 TO 109 ABOVE #### #### FCR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1140 TO 1146. SEE 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEE 541 TO 613 ABOVE #### #### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TO 1190. SEE 373 TO 421 ABOVE #### ################################						
#### FCR 1134 TC 1142. SEF 37 TO 73 ABOVE #### #### FCR 1140 TC 1146. SEE 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEE 541 TO 613 ABOVE #### #### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 AROVE #### #### FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ####						
#### FCR 1140 TC 1146. SEE 49 TO 109 ABOVE #### #### FCR 1142 TO 1158. SEE 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEE 541 TO 613 ABOVE #### #### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### #### FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ####						
#### FGR 1142 TO 1158. SEF 37 TO 73 ABOVE #### #### FCR 1146 TO 1166. SEF 541 TO 613 ABOVE #### #### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 AROVE #### #### FOR 1182 TO 1198. SEF 541 TO 613 ABOVE ####						
#### FCR 1146 TO 1166. SEF 541 TO 613 ABOVE #### #### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### #### FOR 1182 TO 1198. SEF 541 TO 613 ABOVE ####						
#### FCR 1158 TO 1170. SEE 1 TO 49 ABOVE #### #### FCR 1166 TO 1178. SEF 169 TO 241 ABOVE #### #### FOR 1178 TG 1190. SEE 373 TO 421 ABOVE #### #### FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ####						
**** FCR 1166 TO 1178. SEF 169 TO 241 ABOVE **** **** FOR 1178 TG 1190. SEE 373 TO 421 AROVE **** **** FOR 1182 TO 1198. SEE 541 TO 613 AROVE ****					-	
#### FOR 1178 TG 1190. SEE 373 TO 421 AROVE **** #### FOR 1182 TO 1198. SEE 541 TO 613 AROVE ****						
**** FOR 1182 TO 1198. SEE 541 TO 613 ABOVE ****						
**** FUR 1190 TO 1202. SEE 373 TC 421 ABOVE ****						
	444* FOR 1	1190 10 1202	• SEE	373 TC 42	I ARONE **	***

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
**** FCR	1158 TO 1206	SEF		ABOVE ***
**** FCR	1202 TO 1210		37 10 73	
**** FCR	1210 TO 1242		49 10 109	
**** FDR	1218 TO 1266		37 10 73	
**** FOR	1242 TC 1270		49 TO 109	
**** FOR	1266 TO 1274		37 10 73	
**** FCR	1270 TO 1282		49 10 109	
**** FCR	1282 TO 1294		37 TO 73	
**** FOR	1294 TO 1306		541 TO 613 373 TO 421	
**** FOR	1302 TO 1314		49 TO 109	
**** FCR	1306 TO 13186		37 10 73	
**** FCR	1318 TO 1324		49 TO 109	
**** FCR	1328 TO 1334		37 TO 73	
**** FCR	1330 TO 1338		45 TO 109	
**** FOR	1334 TG 1342		37 TO 73	
**** FCR	1342 TO 1354		49 TO 109	
**** FCR	1350 TO 1370		169 TO 241	
**** FCR	1354 TO 1374		373 TO 421	ABOVE ****
**** FCR	1378 TC 1386		49 10 109	ABOVE ****
**** FCR	1386 TO 1392	, SEE	37 TO 73	ABOVE ***
**** FOR	1392 TO 1398	• SEF	49 TO 109	ABOVE ****
**** FOR	1394 TO 1422	• SEE	37 TO 73	ABOVE ****
**** FOR	1398 TO 1430	SEE	49 10 109	ABOVE ****
**** FCR	1422 TO 1438	, SEE	37 TO 73	
4*** FCR	1438 TC 1454		45 TO 109	
**** FOR	1454 TO 1466		169 TO 241	
**** FOR	1458 TO 1470		373 TO 421	
**** FOR	1466 TO 1472		49 70 109	
4+++ FCR	1470 10 1474		37 TO 73	
**** FCR	1476 TO 1482		49 10 109	
4*** FCR	1482 TO 1494		37 10 73	
**** FOR	1510 10 1526		49 TO 109	
**** FCR	1518 TO 1534		169 TO 241	
**** FCR	1526 TO 15426		373 TO 421 49 TO 109	
**** FCR	1534 TO 1546			ABOVE ***
	1546 TO 1578	-		ABOVE ****
	1554 TO 1580		37 TO 73	
**** FCR				ABOVE ***
**** FCR	1614 TO 163C		37 10 73	
	1630 TO 1640			ABOVE ****
**** FOR	1638 TO 1644		37 TO 73	
**** FCR	1644 TO 1648		49 10 109	
**** FCR	1648 TC 1662			ABOVE ****
	1662 TO 1674			ABOVE ****
**** FCR	1666 TO 1682			AROVE ***
**** FCF	1682 TO 1690		49 TO 109	AROVE ****
4444 FCR	1690 TO 1706		37 10 73	ABOVE ****
4+++ FCR	1710 TO 1722		45 TC 109	ABOVE ****
**** FCR	1718 TO 1726	• SFF	37 TC 73	ABOVE ****

PATTERN	NCTES	RELATED TC	NOTES	TEST LENGTH
**** FCR	1722 TC 1728	• SEF		OS AROVE ****
**** FCR	1732 TO 1738			73 ABOVE ****
**** FCR	1738 TO 1752			09 ABOVE ****
**** FOR	1752 TO 1756			73 ABOVE ****
**** FCR	1756 TO 1762			09 ABOVE ****
4*** FOF	1758 10 1768			73 AROVE ++++
**** FCR	1762 10 1770			13 ABOVE ****
**** FCR	1768 TO 1772			21 ABOVE ****
4*** FCR	1770 10 1774			09 ABOVE ****
4*** FOR	1774 TO 1782			73 ABOVE ****
**** FCR	1798 TO 1814			09 ABOVE ****
4*** FCR	1814 TO 1819		•	73 ABOVE **** 09 ABOVE ****
4*** FCR	1818 TO 1820			•••••
**** FCR	1820 TO 1824			
4+** FCR	1824 TO 1828			
4444 FCR	1830 TO 1847			, , , , , , , , , , , , , , , , , , , ,
**** FCR	1846 TO 1855			
**** F[R	1863 TO 1875			
**** FCR	1881 TO 1885			
**** FCR	1883 TO 1887			15 40012
4*** FCR	1667 TO 1895			
**** FCR	1891 TO 1901			41 ABOVE ****
**** FCF	1895 TO 1903			21 ABOVE **** 09 ABOVE ****
**** FCR	1903 TO 1907			
**** F(F	1905 TO 1915			
**** FOR	1915 10 1921			
444* FCR	1519 10 1925			
**** FCR	1929 10 1933			•,
**** FCF	1935 TO 1943 1939 TO 1949			73 ABOVE ++++ 13 ABOVE ++++
**** F(R				21 ABOVE ****
• -				09 ABOVE ****
**** FCR	1951 TO 1955 1955 TO 1973			73 AROVE ****
**** FCR	1973 10 1979			09 ABOVE ****
4*** FCR	1973 TO 1979			73 ABOVE ****
**** FCR	1967 TO 2001			09 ABOVE ****
**** FCR	2005 10 2009			73 ABOVE ****
	2009 10 2009			09 ABOVE ****
4444 FCF	2013 TO 2016			73 ABOVE ****
**** FGR	2015 10 2010			09 ABOVE ****
**** FCR	2016 TO 2019			73 ABOVE ****
**** FCR	2010 TO 2021			09 ABOVE ****
4444 FCR	2020 10 2023			73 ABOVE ****
4444 FOR	2020 10 2025 2021 TO 2024			09 ABOVE ****
**** FCR	2023 10 2024			73 ABOVE ****
**** FCF	2024 10 2027			05 ABOVE ****
**** FCR	2027 10 2055			41 ABOVE ****
4000 FCR	2051 TO 2059			21 ABOVE ****
4*** FOR	2C63 TC 2075			09 ABOVE ****
4+++ FOR	2071 10 2081			73 ABOVE ****
4+++ FOR				09 ABOVE ****
3445 FOR	2101 10 2007			

NOTES TEST LENGTH FATTERN NCTES RELATED TC **37 TO** 73 ABOVE *** **** FCR 2C83 TO 2093. SEF 541 TO 613 ABOVE **** **** FOR 2(89 TO 2095. SEE *** FOR 2093 TO 2099. SEE 1 10 49 ABOVE *** 37 TO 73 ABOVE **** 4*** FOR 2103 TO 2109. SEE 109 ABOVE **** SEF 49 10 **** FCR 2109 TO 2113. 37 10 73 ABOVE **** **** FCR 2111 TO 2117. SEE **** FCR 2119 TO 2123. SEE 49 TO 109 ABOVE **** SEE 169 TO 241 ABOVE *** **** FCR 2123 TO 2139. 421 ABOVE **** **** FOR 2139 TC 2145. SEF 373 TO **** FOR 2147 TO 2155. SEE 49 TO 109 ABOVE **** 73 ABOVE *** **** FCP 2155 TO 2159. SEE 37 TO **** FOR 2165 TO 2169. 49 TO 109 ABOVE **** SEE 37 TO 73 ABOVE *** 4*** FCR 2169 TO 2175. SEE 49 TO 109 ABOVE **** **** FCP 2175 TO 2181. SEE **** FCR 2177 TO 2183. SEF 37 TO 73 ABOVE **** **** FOR 2181 TO 2185. SEF 45 TO 109 ABOVE *** **** FCR 2185 TC 2189. SEF 37 TO 73 ABOVE *** **** FCP 2191 TO 2194. SEF 49 10 109 ABOVE **** 241 ABOVE *** 169 TO **** FCR 2219 TO 2235. SEE **** FOR 2227 TO 2237. 373 TO 421 ABOVE **** SEE **** FCR 2253 TO 2257. 49 10 109 ABOVE **** SEE **** FOR 2255 TO 2259. SEE 37 TO 73 ABOVE **** 109 ABOVE **** **** FCR 2257 TO 2263. 49 TO SEE **** FCR 2263 TO 2273. SEE 169 TO 241 ABOVE *** 373 TO 421 ABOVE *** **** FCR 2267 TO 2275. SEE 109 ABOVE *** 4444 FOR 2275 TO 2279. 45 TO SEE 4*** FOR 2279 TO 2291. SEE 37 TO 73 ABOVE **** 4444 FCR 2291 TO 2297. SEF 49 TO 109 ABOVE **** **** FCR 2293 ID 2299. SEF 37 TO 73 ABOVE **** **** FCR 2297 TO 2301. SEF 49 TO 109 ABOVE **** **** FCR 23C7 TO 2315. SEF 37 TO 73 ABOVE **** **** FCR 2311 TO 2321. SEF 541 10 613 ABOVE *** 4444 FCR 2315 TO 2323. SEE 373 TO 421 ABOVE **** **** FCF 2323 TO 2327. 109 ABOVE **** SEF 49 TO 169 TO 241 ABOVE *** 4*** FOR 2325 TO 2339. SEE 421 ABOVE **** **** FCR 2339 TO 2345. SEF 373 TO 4*** FCR 2343 TO 2347. 49 TO 109 ABOVE *** SEE 37 TO 73 ABOVE *** **** FCR 2345 TO 2349. SEE 444* FCP 2351 TO 2359. SEF 49 TO 109 ABOVE **** **** FOR 2355 TO 2361. SEE 37 TO 73 AROVE *** 49 TO 109 ABOVE **** **** FCR 2359 TC 2363. SEF 37 TO 73 ABOVE *** **** FCF 2365 TO 2373. SEF 49 TO 109 ABOVE *** **** FOR 2367 TO 2375. SEF 73 AROVE *** #### FOR 2373 TO 2391. SEE 37 10 **** FCF 2391 TC 2403. 49 TO 109 ABOVE **** SEE 37 TO 73 ABOVE *** *** FOF 2399 TO 2409. SEE 109 ABOVE **** **** FCR 2403 TO 2411. SEE 45 TO 4*** FCR 2409 TO 2415. SEF 37 TO 73 ABOVE **** **** FCR 2411 TC 2419. SEE 49 10 109 ABOVE **** 4+++ FCR 2419 TO 2429. SEF 37 TO 73 AROVE **** **** FOR 2423 TO 2431. SEF 541 TO 613 ABUVE ***

PAT1FRN	NCTES	RELATED TC	NOTES	TEST LENGTH
**** FCR 24	429 TO 2434.	SEE	373 TO 421	ABOVE ***
**** FOR 24	431 TO 2435.	SEE	541 TO 613	ABOVE ****
**** FOR 24	434 TC 2439.	SEE	373 TO 421	ABOVE ****
**** FCR 24	439 10 2445.	SEE	49 TO 109	ABOVE ****
**** FOR 24	441 TC 2447.	SEE	37 TO 73	ABOVE ***
	445 10 2448.	SEE		ABOVE ***
**** FCR 24	448 TO 2452.	SEE	37 10 73	ABOVE ***
	449 TO 2453.	SEE	541 TO 613	ABOVE ****
	452 TO 2455.	SEE	373 TO 421	ABOVE ****
	453 TC 2457.	SEE	49 TO 109	ABOVE ****
	455 TO 2458.	SEF	37 TO 73	ABOVE ****
	457 TO 2459.	SEE	49 TO 109	ABOVE ****
	459 TO 2475.	SEE	169 TO 241	ABOVE ****
	467 TO 2477.	SEF	373 TO 421	ABOVE ****
	479 10 2487.	SEE	49 70 109	ABOVE ****
	487 TO 2493.	SEE	37 TO 73	ABOVE ****
	489 10 2495.		49 TO 109	ABOVE ****
	497 TC 2503.	SEE	37 TO 73	ABOVE ****
	503 TO 2513.	SEE	49 TO 109	ABOVE ****
	509 TO 2515.	SEF	37 TO 73	ABOVE ****
	13 TO 2516.	SEE	49 TO 109	ABOVE ****
	515 TO 2517.	SEF	37 TO 73	ABOVE ****
	516 10 2519.	SEE	49 TO 109	AROVE ****
	517 TO 2527.	\$EE	37 TO 73	ABOVE ****
	519 TO 2531.	SEE	49 TO 109	ABOVE ****
	527 TC 2533.	SEE	37 TO 73	
	33 10 2537.	SEF	49 TO 109	AROVE **** AROVE ****
	535 TO 2541.	SEE	37 TO 73	
	537 TO 2543.	SEF	45 TO 105	ABOVE ****
	541 TO 2547. 543 TO 2549.	SEE See	169 TO 241 1 TO 49	ABOVE ****
	553 TO 2557.	\$EE	37 TO 73	ABOVE ****
	555 TO 2559.	SEE	49 TO 109	ABOVE ****
	557 TO 2561.	SEF	169 TO 241	ABOVE ****
	559 10 2563.	SEE	373 TO 421	ABOVE ****
	561 TO 2565.		49 TO 109	ABOVE ***
	E63 TO 2566.	SEE	37 TO 73	ABOVE ****
	565 TO 2567.	SEE		ABOVE ****
	566 TO 2591.	SEE		ABOVE ****
	567 TO 2599.	SEE		ABOVE ****
	591 TO 2603.	SEF	37 TO 73	ABOVE ***
	599 TO 2607.	SEE	49 TO 109	ABOVE ****
	603 TC 2611.	SEE	169 TO 241	ABOVE ****
	611 TO 2615.	SEF	373 TO 421	ABOVE ****
	£13 TO 2619.	SEF	49 TO 109	ABOVE ****
	£15 TO 2621.	SEF	169 TO 241	ABOVE ****
	619 TO 2625.	SEF	373 TO 421	AROVE ****
	621 TO 2627.	SEF	541 TO 613	AROVE ****
	£25 TO 2629.	SEE	373 TO 421	ABOVE ****
	627 TO 2631.	SEE		AROVE ***
	631 TO 2635.	SFF	37 TO 73	ABOVE ****

PATT	ERN	ı	NCT	ES	RELATED TC	ı	NOTE	S	TES	5 T	LENGTH
****	FCR	2635	TO	2645		45	TO	109	ABUVE	***	
****	FCR	2639	TO	2647.		169	TO	241	ABOVE	***	
****	FOR	2645	TO	2651.		273	TO	421	AROVE	***	
****	FOR	2657	TO	2661		45	TO	109	AROVE	***	
****	FCF	2659	TC	2662		37	TO	73	ABOVE	***	
****	FOR	2661	TO	2663		45	TO	109	ABOVE	***	
****	FCR	2662	TO	2679		37	TO	73	ABOVE	***	
****	FCF	2663	TO	2683	SEE	49	TO	109	ABOVE	***	
****	FCR	2683	TO	2693	SEE	37	TO	73	ABCVE	***	*
****	FOR	2687	TO	2695	• SEF	49	TO	1C9	AROVE	***	*
****	FCF	2695	TC	2699.	SEF	37	TO	73	ABOVE	***	*
****	FOR	27C7	TO	2711.	SEE	49	10	109	ABOVE	***	*
****	FCF	2719	TO	2729.		37	TO	73	ABOVE	***	
****	FOF	2727	TO	2733.	SEE	49	TO	109	ABOVE	***	
****	FOR	2733	TO	2739.	SEF	37	TO	73	ABOVE	***	*
****	FOR	2739	TC	2751.	SEF	49	TC	1C9	AROVE	***	*
****	FCF	2751	TO	2759.	_	37	TO	73	AROVE	***	
****	FCR	2755	TO	2761.	SEE	49	TO	109	ABOVE	***	*
****	FCR	2761	TO	2765.	SEE	37	10	73	ABOVE	***	*
****	FOR	2763	TO	2767.	SEE	45	TO	109	ABOVE	***	*
****	FOR	2765	TO	2769.	SEE	37	TO	73	ABOVE	***	*
****	FCR	2769	10	2775	SEF	49	TO	109	ABOVE	***	*
****	FCR	2773	TO	2781.	SEE	37	TO	73	ABOVE	***	*
****	FCR	2775	TO	2783	SFE	541	TO	613	ABOVE	***	*
****	FCR	2781	TO	2785	SEF	373	TO	421	ABOVE	***	
****	FCR	2785	TO	2791	SEE	49	TO	109	ABOVE	***	*
****	FCR	2753	TC	2797	SEF	37	TO	73	ABOVE	***	*
****	FCF	2757	10	2801.	SEF	49	TO	109	ABOVE	***	*
****	FCP	2759	TO	2803.	SEE	37	TO	73	AROVE	***	*
****	FCR	28C1	TO	2805	SEF	49	TO	105	AROVE	***	*

*** TYPE I LISTING CONTINUED ***

SEARCH FCR PATTERNS OF 4 NOTES IN LENGTH -TONAL RETROGRADE has begun at 1128 seconds into execution.

PATTERN	NCTES	RELATFD	TO NOTES	TEST	LENGTH
252	1 10 73		529 TO 613	5	4
293	1 10 73		1142 TO 1166	5	4
794	1 70 73		1758 TO 1770	5	4
295	1 TO 73		1935 TO 1949	5	4
296 263	1 10 73		2083 TO 2095 2307 TO 2321	5	4
257 260	1 TO 73 1 TO 73		2307 TO 2321 2419 TO 2431	5 5	4
258 266			2448 TO 2453	5	4
255	1 TO 73 1 TO 73		2773 TO 2783	5	4
300 301	37 TO 109		109 TO 145	5	4
302	37 TG 109		405 TO 481	5	4
303	37 TO 109		445 TO 505	5	4
304	37 TO 109		789 TO 821	5	4
305	37 10 109		805 TO 853	5	4
30 <i>6</i>	37 10 109		930 TO 946	5	4
307	37 TO 109		942 TO 952	ś	4
308	37 10 109		558 TO 970	5	4
309	37 TO 109		970 TO 1014	5	4
310	37 TC 109		1002 TO 1026	5	4
311	37 TO 109		1022 TO 1042	5	4
312	37 TO 109		1034 TO 1070	5	4
313	37 TO 109		1070 TO 1086	5	4
214	37 TO 109		1106 TO 1126	5	4
315	37 TO 109		1118 TC 1134	5	4
316	37 10 109		1130 TO 1142	5	4
217	37 TC 109		1140 TO 1158	5	4
318	37 10 109		1198 TO 1210	5	4
319	37 TO 109		1210 TO 1266	5	4
32C	37 TO 109		1242 TO 1274	5	4
221	37 TO 109		1306 TO 1320	5	4
322	37 TO 109		1330 TO 1342	5	4
323	37 TO 109		1392 TO 1422	5	4
324	37 TO 109		1398 TO 1438	5	4
325	37 TC 109		1466 TO 1474	5	4
32€	37 TO 109		1534 TO 1554	5	4
327	37 10 109		1546 TO 1580	5	4
328	37 TO 109		1630 TO 1644	5	4
329	37 TO 109		1662 TO 1682	5	4
33C	37 10 109		1710 TO 1726	5	4
331	37 TO 109		1756 TO 1768	5	4
232 233	37 TO 109		1881 TO 1887 1903 TO 1915	5 5	4
333 334	37 TG 109 37 TG 109		1915 TO 1925	5 5	4
735	37 TO 109 37 TO 109		2015 TO 2019	5	4
7.50	נוו זני		7019 10 2019	,	~

PATTFRN	NCTES	RELATED TO NOTES	TFST	LENGTH
336	37 10 109	2015 TO 2023	5	4
337	37 TO 109	2021 TO 2025	5	4
338	37 TO 109	2063 TO 2081	5	4
239	37 TO 109	2C81 TO 2093	5	4
340	37 TO 109	21C9 TO 2117	5	4
341	37 TC 109	2175 TO 2183	5	4
342	37 10 109	2253 TO 2259	5	4
343	37 TO 109	2291 TO 2299	5	4
344	37 10 109	2343 TO 2349	5	4
345	37 TO 109	2351 TO 2361	5	4
346	37 TO 109	2367 TO 2391	5	4
347	37 TO 109	2391 TO 2409	5	4
348	37 10 109	2403 TO 2415	5	4
349	37 TC 109	2439 TO 2447	5	4
35C	37 10 109	2453 TO 2458	5	4
351	37 10 109	2503 TO 2515 2513 TO 2517	5 5	4
352 353	37 TO 109 37 TO 109	2513 TO 2517 2 5 16 TO 2527	5	4
	37 TO 109	2519 TO 2533	5	4
354 355	37 TO 109	2533 TO 2541	5	4
356	37 10 109	2561 TO 2566	5	4
357	37 TO 109	2565 TO 2591	5	4
358	37 10 109	2567 TO 2603	5	4
359	37 10 109	2 6 57 TO 2 6 62	5	4
360	37 10 109	2461 TO 2679	5	4
361	37 10 109	2763 TO 2769	5	4
362	37 TO 109	2769 TO 2781	5	4
363	37 TO 109	2797 TO 2803	5	4
364	37 TO 109	2801 TO 2806	5	4
365	49 10 121	421 TO 493	5	4
366	49 TO 121	481 TO 517	5	4
367	49 10 121	781 TO 805	5	4
368	49 10 121	797 TO 837	5	4
369	49 TO 121	934 TO 948	5	4
370	49 TO 121	556 TO 966	5	4
371	49 10 121	578 TO 1022	5	4
?72	49 10 121	1014 10 1034	5	4
373	49 TC 121	1026 10 1050	5	4
374	49 TO 121	1104 TO 1118	5	4
375	49 10 121	1110 TO 1130	5	4
376	49 10 121	1126 TO 1140	5	4
377	49 TC 121	1134 TO 1146	5	4
378	49 TO 121	1218 TO 1270 1266 TO 1282	5	4
379 380	49 TO 121 49 TO 121	1200 TU 1202 1314 TO 1324	5 5	4 4
381	49 10 121	1328 TO 1338	5	4
382	49 10 121	1394 10 1430	5	4
363	49 10 121	1542 TO 1578	5	4
3E4	49 10 121	1718 TO 1728	5	4
385	49 10 121	1814 TO 1820	5	4
386	49 TO 121	1987 TO 2003	ś	4
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PATTERN	NCTES	5	RELATEC	TC	NOTE	ES	TEST	LENGTH
387	49 10	121		2013	10	2017	5	4
388	49 10	121		2020	TO	2024	5	4
389	49 TO	121		2023	TO	2027	5	4
35C	49 TO	121		2177	TO	2185	5	4
391	49 10	121		2255		2263	5	4
352	49 10	121		2293		2301	5	4
393	49 TC	121		2355		2363	5	4
354	49 10	121		2365			5	4
395	49 TO	121		2399		2411	5	4
39 <i>E</i>	49 10	121		2409		2419	5	4
397	49 TC	121		2441	TO	2448	5	4
358	49 10	121		2455		2459	5	4
399	49 TO	121		2487		2495	5	4
4CC	49 10	121		2509		2516	5	4
401	49 10	121		2515		2515	5	4
4C2	49 10	121		2517		2531	5	4
403	49 10	121		2535		2543	5	4
404	49 10	121		2553	TO	2559	5	4
405	49 10	121		2563		2567	5	4
406	49 TO	121		2566		2599	5	4
407	49 10	121		2591	TO		5 5	4
4C E	49 10	121		2659		2663		4
409	49 TC	121		2662 2 6 83		2683 2695	5 5	4
41C	49 TO 49 TO	121 121		2719		2733	5	4
411 412	49 TO	121		2751	TO	2761	5	4
		121		2761	TO	2767	5	4
413	49 TO 49 TO	121		2799		2805	5	4
414 415	49 TO	121		2803		2807	5	4
**** FOR	73 10	133.		EE 37		109	ABOVE ***	-
**** FCR	109 TO	145.		E 49		121	ABOVE ***	
416	121 TO	157		517		585	5	4
417	121 10	157		773		797	Ś	4
418	121 10	157		898		914	5	4
419	121 10	157		954		962	5	4
420	121 10	157		1102		1110	5	4
421	121 TO	157		1274		1294	5	4
427	121 10	157		1326		1334	5	4
423	121 10	157		1382		1392	5	4
424	121 10	157		1480		1494	5	4
425	121 10	157		159C	TO	163C	5	4
426	121 10	157		1646	TO	1662	5	4
427	121 TO	157		1686		1706	5	4
428	121 TO	157		1728		1738	5	4
429	121 TO	157		1742		1756	5	4
430	121 TO	157		1772		1782	5	4
431	121 TO	157		1810		1819	5	4
437	121 TO	157		1819		1824	5	4
433	121 TO	157		1855		1875	5	4
434	121 10	157		1933		1943	5	4
435	121 TO	157		1953	TO	1973	5	4

PATTFRA	NCTES	RELATED TO NOTES	TEST	LENGTH
436	121 10 157	1575 TO 2001	5	4
437	121 70 157	2004 TO 2009	5	4
438	121 TO 157	2011 TO 2016	5	4
439	121 10 157	2C99 TO 2109	5	4
440	121 70 157	2151 TO 2159	5	4
441	121 10 157	2167 10 2175	5	4
442	121 70 157	2183 TO 2189 2277 TO 2291	5 5	4
443	121 TC 157 121 TO 157	2277 TO 2291 2305 TO 2315	5	4
444 445	121 10 157	2363 TO 2373	5	4
446	121 TO 157	2415 TO 2429	5	4
447	121 10 157	2447 TO 2452	5	4
448	121 TO 157	2483 TO 2493	5	4
449	121 TO 157	2495 TO 2503	5	4
450	121 10 157	2549 TO 2557	5	4
451	121 TO 157	2629 TO 2635	5	4
452	121 TO 157	2679 TD 2693	5	4
453	121 TO 157	2693 TD 2699	5	4
454	121 TO 157	2715 TO 2729	5	4
455	121 10 157	2729 TO 2739	5	4
456	121 10 157	2743 TO 2759	5	4
457	121 TO 157	2759 TO 2765	5	4
458	121 10 157	2791 TO 2797	5	4
459	145 TO 217	493 TO 529	5	4
46C	145 TO 217	733 TO 781	5	4
461 462	145 TO 217 145 TO 217	870 TO 902 952 TO 958	5 5	4 4
463	145 10 217	1086 TO 1104	5	4
464	145 TG 217	1270 TO 1286	5	4
465	145 10 217	1318 TO 1326	5	4
466	145 TO 217	1378 TO 1388	5	4
467	145 TO 217	1438 TO 1458	5	4
468	145 TO 217	1476 TO 1486	5	4
469	145 TO 217	1586 TO 1626	5	4
470	145 TO 217	1644 TO 1650	5	4
471	145 TO 217	1682 TO 1698	5	4
472	145 TO 217	1722 TO 1732	5	4
473	145 TO 217	1738 TO 1754	5	4
474	145 10 217	1770 TO 1778	5	4
475	145 TC 217	1798 TO 1818	5	4
476	145 10 217	1818 TO 1822	5	4
477	145 TO 217 145 TO 217	1824 TO 1830 1929 TO 1935	5 5	4
478 479	145 TO 217 145 TO 217	1929 TO 1939	5	4
48C	145 10 217	1973 TO 1987	5	4
481	145 10 217	1995 TO 2004	5	4
482	145 10 217	2CC9 TO 2015	5	4
483	145 TO 217	2024 TO 2051	5	4
484	145 TO 217	2115 TO 2135	5	4
485	145 10 217	2147 TO 2157	5	4
486	145 TO 217	2165 TO 2171	5	4

487	PATTE	RN	ı	NCTE	S	RELATED	TO	NOT	ES	TES	T LENG1	ТН
489 145 TO 217 2257 TO 2267 5 4 490 145 TO 217 2275 TO 2287 5 4 491 145 TO 217 2297 TO 2303 5 4 492 145 TO 217 2359 TO 2365 5 4 493 145 TO 217 2359 TO 2365 5 4 494 145 TO 217 2451 TO 2423 5 4 495 145 TO 217 2455 TO 2469 5 4 495 145 TO 217 2457 TO 2467 5 4 496 145 TO 217 2457 TO 2467 5 4 497 145 TO 217 2469 TO 2499 5 4 497 145 TO 217 2469 TO 2499 5 4 497 145 TO 217 2469 TO 2497 5 4 458 145 TO 217 2663 TO 2687 5 4 459 145 TO 217 2663 TO 2687 5 4 550 145 TO 217 2663 TO 2687 5 4 550 145 TO 217 2663 TO 2697 5 4 550 145 TO 217 2707 TO 2715 5 5 450 145 TO 217 2707 TO 2715 5 5 450 145 TO 217 2727 TO 2735 5 5 4 550 145 TO 217 2739 TO 2735 5 4 550 145 TO 217 2739 TO 2735 5 5 4 550 145 TO 217 2739 TO 2735 5 4 550 145 TO 217 2739 TO 2735 5 5 4 550 145 TO 217 2739 TO 2735 5 5 4 550 145 TO 241 2739 TO 2735 5 5 4 550 145 TO 241 373 TO 245 5 4 550 157 TO 241 373 TO 445 5 4 510 157 TO 241 190 TO 1206 5 4 510 157 TO 241 190 TO 1206 5 4 510 157 TO 241 190 TO 1206 5 4 511 157 TO 241 190 TO 1206 5 4 512 157 TO 241 190 TO 1206 5 4 513 157 TO 241 190 TO 1206 5 4 514 157 TO 241 190 TO 1206 5 4 515 157 TO 241 190 TO 1206 5 4 516 157 TO 241 190 TO 1206 5 4 517 TO 241 190 TO 1206 5 4 518 169 TO 373 1170 TO 1410 559 TO 2410 559 TO 2565 5 5 516 157 TO 241 2452 TO 1318 5 5 521 169 TO 373 2135 TO 2143 5 4 518 169 TO 373 2135 TO 2143 5 4 522 241 TO 421 2235 TO 2347 5 4 524 241 TO 421 2325 TO 2343 5 4 525 241 TO 421 2325 TO 2343 5 4 526 373 TO 445 1342 TO 1370 5 4 528 273 TO 445 1342 TO 1370 5 4 531 273 TO 445 1342 TO 1370 5 4 532 373 TO 445 1342 TO 1370 5 4 534 273 TO 445 2233 TO 2347 5 4 534 273 TO 445 2233 TO 2347 5 4 531 273 TO 445 2233 TO 2347 5 4 533 373 TO 445 2337 TO 2567 5 5 534 70 241 1366 TO 1534 5 4 535 373 TO 445 2255 TO 2661 5 4 534 273 TO 445 2255 TO 2661 5 4 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2661 5 5 54 534 273 TO 445 2255 TO 2667 5 5 54 534 273 TO 445 2255 TO 2667 5				TO							-	
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526 373 TO 445 1342 TO 1370 5 4 527 373 TO 445 1510 TO 1534 5 4 528 273 TO 445 1887 TO 1901 5 4 529 373 TO 445 2323 TO 2339 5 4 530 373 TO 445 2537 TO 2547 5 4 531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 ***** FCR 421 TO 493. SEE 49 TO 121 ABOVE *****												
527 373 TO 445 1510 TO 1534 5 4 528 273 TO 445 1887 TO 1901 5 4 529 373 TO 445 2323 TO 2339 5 4 530 373 TO 445 2537 TO 2547 5 4 531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 534 273 TO 445 2635 TO 2647 5 4 534 573 TO 445 2635 TO 2647 5 4 534 573 TO 445 2635 TO 2647 5 4 534 573 TO 445 SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEE 37 TO 109 ABOVE ****												
528 273 TO 445 1887 TO 1901 5 4 529 273 TO 445 2323 TO 2339 5 4 530 373 TO 445 2537 TO 2547 5 4 531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 534 273 TO 445 2635 TO 2647 5 4 ***** FCR 409 TO 481. SEE 49 TO 121 ABOVE ***** ***** FCR 421 TO 493. SEE 37 TO 109 ABOVE *****												
529 373 TO 445 2323 TO 2339 5 4 530 373 TO 445 2537 TO 2547 5 4 531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 **** FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEF 37 TO 109 ABOVE ****												
530 373 TO 445 2537 TO 2547 5 4 531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 **** FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEF 37 TO 109 ABOVE ****												
531 273 TO 445 2555 TO 2561 5 4 532 373 TO 445 2599 TO 2611 5 4 533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 **** FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEE 37 TO 109 ABOVE ****												
#32 373 TO 445 2599 TO 2611 5 4 #533 373 TO 445 2613 TO 2621 5 4 #534 273 TO 445 2635 TO 2647 5 4 #### FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** #### FCR 421 TO 493. SEF 37 TO 109 ABOVE ****												
533 373 TO 445 2613 TO 2621 5 4 534 273 TO 445 2635 TO 2647 5 4 **** FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEE 37 TO 109 ABOVE ****												
#### FCR 421 TO 493. SEF 37 TO 109 ABOVE ****												
**** FCR 4C9 TO 481. SEE 49 TO 121 ABOVE **** **** FCR 421 TO 493. SEE 37 TO 109 ABOVE ****												
**** FCR 421 TO 493. SEF 37 TO 109 ABOVE ****						. s						
**** FCR 445 TO 505. SEF 49 TO 121 ABOVE ****			445	TO							****	

PATTERN	NCTES	RELATED TO	NOTE:	S	TEST	LENGTH
**** F(R	481 TO 5	17. SEE	37 10	109	ABOVE ***	**
535	493 TO 52	! 9	922 TO	942	5	4
536	493 10 52	9	948 TO	956	5	4
537	493 TO 52	9	966 TO	1002	5	4
538	493 TO 52	9	1050 TO	1082	5	4
539	493 TO 52	9	1082 TO	1102	5	4
540	493 TO 52	29	1206 TO	1242	5	4
541	493 10 52	9	1338 TO	1354	5	4
542	493 TO 52	9	1374 TO	1386	5	4
543	493 TO 52	9	1388 TO	1398	5	4
544	493 TC 52	9	1430 TO	1454	5	4
545	493 TO 52	9	1474 TO	1482	5	4
546	493 TO 52	<u> </u>	1506 TO	1526	5	4
547	493 TO 52	9	1582 TO	1614	5	4
548	493 TO 52	!9	1426 TO	1640	5	4
549	493 TO 52	9	164C TO	1648	5	4
550	493 TO 52	19	1450 TO	1674	5	4
551		9	1674 TO	169C	5	4
552		<u> </u>	1708 TO	1722	5	4
553	493 10 52			1752	5	4
554	493 10 52			1762	5	4
555	493 TO 52			1814	5	4
556	493 TC 52			1828	5	4
557	493 TO 52			1885	5	4
558	493 10 52			1895	5	4
559	493 10 52			1907	5	4
560		9		1921	5	4
561		29		1933	5	4
562	453 TO 52			1955	5	4
563		9		1979	5	4
564		9		2013	5	4
565		9		2021	5	4
566		9		2075	5	4
567		29		2089	5	4
568		29		2113	5	4
569		29		2123	5	4
570		9	2145 TO		5	4
571	493 TO 52		2159 TO		5	4
572		9		2181	5	4
573		9		2194	5	4
574		!9	2247 TO		5	4
575		29		2279	5	4
576		29		2297	5	4
577		9		2327	5	4
578		9		2359	5	4
579		9		2403	5	4
5 E C		29		2445	5	4
581		9		2487	5	4
582		9		2513	5	4
583		9		2537	5	4
584		9	2633 TO		5	4
767	1,2 10 7	•	(• •	•	•

PATTERN	NCTES	RELATED TC NOTES	TEST	LENGTH
585	493 TO 529	2653 TO 2661	5	4
586	493 10 529	2705 TO 2711	5	4
587	453 TO 529	2735 TO 2751	5	4
588	493 10 529	2767 TO 2775	5	4
589	493 TO 529	2783 TO 2791	5	4
550	493 TC 529	2795 TO 2801	5	4
551	517 TO 589	502 TO 922	5	4
592	517 TO 589	946 TO 954	5	4
593	517 TO 589	962 TO 978	5	4
554	517 TO 589	1042 TO 1074	5	4
595	517 TO 589	1C74 TO 1094	5	4
596	517 10 589	1202 TO 1218	5	4
557	517 10 589	1282 TO 13C2	5	4
558	517 TO 589	1334 TO 1350	5	4
599	517 TO 589	1286 TO 1394	5	4
600	£17 TO 589	1422 TO 1446	5	4
601	517 TC 589	1470 TO 1476	5 5	4
6C2	517 10 589	1482 TO 1498		4
603	517 10 589	1554 TO 1582	5 5	4
604	517 TC 589	1614 TO 1638 1638 TO 1646	5 5	4 4
€ €5	517 TO 589 517 TC 589	1648 TO 1666	5	4
606 607	517 TC 589 517 TG 589	1666 TO 1686	5	4
607	517 TO 589	1690 TO 1708	5	4
609	517 TO 589	1732 TO 1742	5	4
610	517 10 589	1752 TO 1758	5	4
611	517 TO 589	1774 TO 1784	5	4
612	\$17 TO 589	1820 TO 1827	5	4
613	517 TO 589	1863 TO 1881	5	4
614	517 TO 589	1883 TO 1891	5	4
€15	517 10 589	1905 TO 1919	5	4
£16	517 TO 589	1919 TO 1927	5	4
617	517 TO 589	1955 TO 1975	5	4
<i>6</i> 18	517 TO 589	2005 TO 2011	5	4
619	517 TO 589	2016 TO 2020	5	4
<i>6</i> 20	517 TO 589	2C71 TO 2083	5	4
<i>6</i> 21	517 TO 589	2103 TO 2111	5	4
£22	517 10 589	2111 TO 2119	5	4
<i>F23</i>	517 TO 589	2155 TO 2165	5	4
624	517 TO 589	2169 TO 2177	5	4
€25	517 10 589	2185 TO 2191	5	4
<i>£</i> 26	517 TO 589	2279 TO 2293	5	4
£27	517 TO 589	2345 TO 2351	5	4
628	517 TO 589	2373 TO 2399	5	4
629	517 TO 589	2497 TO 2509	5	4
630	517 10 589	2527 TO 2535	5	4
631	517 TO 589	2631 TO 2639	5	4
637	517 TC 589	2695 TO 2701	5	4
633	517 10 589	2733 TO 2743	5	4
£34	517 10 589	2765 TO 2773	5 5	4
£35	517 TO 589	2793 TO 2799	י	4

PATTE	PΛ	٨	NC TE	E S	RELATED TO	. h	NOT	E S	TES	T	LENGTH
636		541	TO	709		2541		2549	5		4
637		589	TO	733	25.5	1158		1178	10045		4
****		613	TO	765		541	TO		ABOVE		
	FCR	709	TO	773		373	10	445	ABOVE		
	FCR	733	TC	781		493	TO TO	529 589	AROVE		
	FCR	773	TO	797		517 37	TO		AROVE		
	FCF	781 789	TO TO	805		49	TO	109 121	ABOVE		
	FCF FCR	757	TO	821. 837.		37	TO	109	ABOVE	***	
	FCR	805	TO	853.		49	TO	121	ABOVE	***	
	FCR	821	TG	£69•		37	TO	109	ABOVE	***	
	FOR	837	TO	870		49	TO	121	ABOVE	***	
	FCR	853	TO	894		121	TO	157	ABOVE		
	FCR	869	TO	858		145	TO	217	ABOVE		
	FCR	£ 70	TO	502		493	ΤO	529	ABOVE		
	FCF	898	TO	514.		517	TO	589	AROVE		
	FGR	902	TO	522		121	TO	157	ABOVE		
	FCR	522	10	942		145	TO	217	APOVE	***	
	FCR	930	TO	946		49	TO	121	APOVE	***	
	FCP	934	TO	548		37	TO	109	ABOVE	***	*
	FCR	942	TO	952		49	TO	121	ABOVE	***	*
	FCR	546	TO	954		121	TO		ABOVE	***	
	FCR	548	TO	956		145	TO	217		***	
	FCR	552	TO	558		493	TO	529	ABOVE	***	
	FCF	954	TC	962		517	TO	589	ABOVE	***	: :
	FCR	956	TO	966.		37	TO	109	ABOVE	***	*
	FCR	558	TO	570.		49	TO	121	ABOVE	***	*
	FCR	962	TC	578.		121	TO	157	ABOVE	***	*
****	FCR	966	TC	1002.	SEE	145	TO	217	ABOVE	***	*
***	FCF	970	TO	1014.	SEF	49	TO	121	ABOVE	***	*
****	FCF	578	TO	1022.	SEE	37	TG	105	ABOVE	***	*
****	FCF	1002	TO	1026.		49	TO	121	ABOVE	***	*
	FCF	1014	TO	1C34.		37	TO	109	ABOVE	***	*
	FCR	1022	TO	1042.		45	TO	121	ABOVE	***	
	FCR	1026	TO	1050.		37	TO	109	ABOVE	***	_
	FCR	1C34		1070.		49	10	121	ABOVE	***	
			_	1074.		121			AROVE		
				1082.		145			ABOVE		
	FCR	1070		1C86.			TO	121			
	FOR	1074		1094		121	TO		AROVE		
	FCR	1082		1102.			TO		APOVE		
	FCF	1686		1104.		493	TO	529		***	
	FCF	1102		1110.		517	TO	589		***	
	FCR	1104		1118.		37	TO	109		***	
	FCF	1106		1176.		49	10	121	AROVE		
	FCR	1110		1130.		37	10	109			
	FCF	1118		1134		49	TO	121			
	FCF	1126		1140.		37	TO		ABOVE		
	FCR	1130	10			49	TO	121			
	FCR	1134		1146		37 40	TO	109			
***	FCR	1140	ΙÜ	1158.	SEF	47	TO	121	AROVE	T * T	•

FATTERN	NCT	ES	RELATED T	ב ו	NUL	S	TES	S T	LENGTH
<i>f</i> 38	1146 TO	1170		2(85	T 0	2099	Ġ	5	4
639	1158 TO			1178	TO	1198	9	5	4
640	1158 TO	1178		2429	TO	2435	9	5	4
641	1158 TO	1178		2619	TO	262 7	9	5	4
**** FCR	1166 TO	1182	SEE	169	TO	373	ABOVE	***	*
**** FCF	1170 10	1190	SEF	241	TO	421	ABOVE	**4	**
4444 FCR	1178 TO	1198	SEE	589	TO	733	ABOVE	***	*
**** FCF	1182 TO	1202	SEE	541	TO	705	ABOVE	**4	*
**** FCR	1190 TO	1206	SEE	273	TO	445	ABOVE	**1	**
**** FCF	1198 TO	1210	SEE	49	TO	121	ABOVE	***	
**** FCR	1202 TO	1218	SEE	121	TO	157	ABOVE	***	*
**** FCP	1206 10	1242	SEE	145	TO	217	ABOVE	***	*
**** FCR	1210 TO	1266	SEF	49	TO	121	ABOVE	***	
**** FCF	1218 TC	1270	SEE	37	TN	109	ABOVE	***	
**** FCR	1242 TO	1274	SEE	49	TO	121	ABOVE	***	*
**** FCR	1266 TO	1282	SEF	37	TO	109	ABOVE	***	*
**** FCR	1270 TO	1286	SEE	493	TO	529	ABOVE	***	*
**** FCP	1274 TO	1294	SEF	517	TO	589	ABOVE	***	*
**** FCR	1282 TO	1302	SFE	121	TO	157	ABOVE	***	*
642	1286 TO	1306		2093	TO	2103	9	j	4
643	1286 TO	1306		2543	TO	2553	5	5	4
**** FCR	1294 TO	1314	SEF	541	TO	709	ABOVE	***	*
**** FCR	1302 TO	1318	SEF	373	TO	445	ABOVE	***	:
4*** FCF	1306 TO	1320	SEE	49	TO	121	ABOVE	***	*
4*** FCR	1314 10	1324	SEE	37	TO	109	AROVE	**4	**
**** FCR	1318 TO	1326	SFF	493	TO	529	ABOVE	**4	*
**** FCF	1326 TO	1334	SEF	517	TC	589	AROVE	***	*
4444 FCR	1328 TO	1338	SEF	37	TO	109	ABOVE	***	*
**** FCR	1330 TO	1342	SEE	49	TO	121	APOVE	***	*
4*** FCR	1334 TO	1350	SFE	121	TO	157	ABOVE	***	*
**** FOF	1338 TO	1354	SEF	145	TO	217	ABOVE	***	*
**** FCR	1342 TO	1370	SEE	157	TO	241	AROVE	***	*
644	1250 TO	1374		1454	TN	1470	9	5	4
645	1350 TC	1374		1518	TO	1542	5	5	4
£46	1350 TO	1374		1891	TO	1903	5		4
€47	1350 TO	1374		2027	TO	2059	5		4
€48	1350 10	1374		2219	TO	2237	5		4
649	1350 TC	1374		2263	TN	2275	5		4
€50	1350 TO	1374		2459	TO	2477	Ç		4
651	1350 TO	1374		2557	TO	2563	5		4
652	1350 TO					2625	5		4
653	135C TO	1374		2639	TO	2651	5		4
654	1354 TO	1378		1446	TO	1466	5		4
€55	1354 TO	_				2055	5		4
656	1354 TO	1378		2121		2139			4
657	1354 TO			2195	TO	2235	5		4
658	1354 TO			2259	TO	2273	5		4
659	1354 TO					2475	9		4
*** FCR	1374 TO	1386	SEE	145	TO		AROVE		
4444 FCR	1378 TO	1388		493	TO		ABOVE		
4444 FCP	1382 TC	1392	SEF	517	TO	589	ABOVE	***	*

PATTERN	NCTES	RELATEC TO	D NOT	ES	TEST	LENGTH
4444 FCR 138	5 TO 1394	• SEE	121 10	157	ABOVE ***	•
**** FCR 138	B TO 1398	• SEF	145 TO	217	ABOVE ***	*
**** FCF 139	2 TO 1422	• SEE	49 TO			
**** FCR 1394	4 10 1430	• SEF	37 TO		ABOVE ***	
**** FOR 139			49 10		ABOVE ***	
4444 FCR 142			121 10			
**** FOR 143			145 TO		AROVE ***	
**** FOR 143		• SEE	493 10		ABOVE ***	
660 1446			1895 TO		5	4
661 1446			1943 TO		5	4
662 1440			2051 TO		5	4
663 1440			2139 TO		5	4
664 1440			2227 10		5	4
665 1446				2277	5 5	4
666 1440			2315 TO 2434 TO		5	4
667 1446 668 1446			2467 TO		5	4
669 1440			2645 TO		5	4
670 1440				2789	5	4
**** FOR 1454		• SEE	1350 TO		ABOVE ***	
*** FGR 1450			373 TO		ABOVE ***	
**** FCR 146			49 10		ABOVE ***	
4*** FOR 1470			121 10		AROVE ***	
**** FCR 1474		-	145 TO			
**** FOR 1476			493 TO		ABOVE ***	*
**** FCR 1480			517 TO		AROVE ***	*
**** FCR 148	-		121 TO			*
**** FCR 150			145 TO			*
4444 FCR 1510			157 TO	241	ABOVE ***	*
**** FOR 1510	3 TO 1542	• SEE	1350 TO	1374	ABOVE ***	*
4444 FCR 1520	5 TO 1546	• SEE	373 TO	445	ABOVE ***	*
	4 TO 1554		49 TO		ABOVE ***	
**** FCR 154	2 TO 1578	• SEE	37 T 0	109	ABOVE ***	
**** FOR 154			49 TO			
4444 FOR 1554			121 TO			
**** FOR 1582			145 TO		ABOVE ***	
**** FCR 158			493 TO		ABOVE ***	
**** FCR 1550			517 TO		AROVE ***	
**** FCR 1614			121 TO			
**** FOR 1626			145 10		ABOVE ***	
**** FOR 1630			49 10		APOVE ***	
**** FCR 1638			121 TO			
**** FCR 1640	_		145 TO 493 TO		ABOVE ***	
**** FOR 164			517 TO		ABOVE ***	
**** FCR 164			121 10		ABOVE ***	
**** FCR 165			145 TO			
**** FCF 166			49 10			
	5 TO 1686				ABOVE ***	
	4 TO 1690		145 TO		ABOVE ***	
	7 TO 1698		493 10		AROVE ***	

RELATED TO

NOTES

TEST

LENGTH

NCTES

FATTERN

517 TO 589 ABOVE **** **** FOR 1686 TC 1706. SEF 121 TO 157 ABOVE **** **** FCR 1690 TO 1708. SEF 145 TO 217 ABOVE **** **** FCR 17C8 TO 1722. SEE 49 TO 121 ABOVE **** **** FCF 1710 TO 1726. SEE SEF 37 TO 109 ABOVE **** **** FCR 1718 TG 1728. **** FCR 1722 TO 1732. SEE 493 10 529 ABOVE **** 517 TO SEF 589 ABOVE **** 4444 FCF 1728 TO 1738. 157 AROVE **** SEE 121 TO **** FOR 1732 TO 1742. **** FCR 1734 TO 1752. SEE 145 TO 217 ABOVE **** SEE 493 TO 529 ABOVE **** **** FCR 1738 TO 1754. SEE 517 TO 589 ABOVE **** **** FCR 1742 TO 1756. **** FOR 1752 TO 1758. SEE 121 TO 157 ABOVE **** 145 TO 217 ABOVE **** **** FCF 1754 TO 1762. SEF 121 ABOVE **** **** FOR 1756 TO 1768. SEE 49 TO 541 TO **** FCR 1762 TC 1772. 709 ABOVE **** SEF 373 TO 445 ABOVE **** **** FCR 1768 TO 1774. SEE 493 TO 529 ABOVE *** **** FCR 1770 TO 1778. SEE **** FCR 1772 TO 1782. 517 TO 589 APOVE *** SEE **** FCR 1774 TC 1784. SEF 121 TO 157 ABOVE **** **** FCR 1790 TO 1814. SEE 145 TO 217 ABOVE **** **** FCR 1758 TO 1818. 493 TO 529 ABOVE **** SEE 517 10 589 ABOVE **** **** FCF 1810 TO 1819. SEE 37 10 109 ABOVE **** **** FCR 1814 TO 1820. SEF 493 TO **** FOR 1818 TO 1822. 529 ABOVE *** SEE **** FOF 1819 TO 1824. SEE 517 TO 589 ABOVE **** **** FOR 1820 TO 1827. SEE 121 TO 157 ABOVE **** **** FCR 1822 TO 1828. SEE 145 TO 217 ABOVE **** SEF 493 TO 529 ABOVE *** **** FOR 1824 TO 1830. **** FCR 1828 TO 1847. SEE 517 TO 589 ABOVE **** **** FCR 1830 TO 1855. 37 TO SEE 109 AROVE **** 493 TO **** FCR 1846 TO 1863. SEF 529 ABOVE **** **** FCR 1855 TO 1875. 517 TO 589 ABOVE **** SEE 157 ABOVE **** **** FOR 1863 TO 1881. SEE 121 TO SEF 145 TO 217 ABOVE **** **** FCR 1875 TO 1885. **** FOR 1881 TO 1887. 45 TO 121 ABOVE **** SEE **** FCR 1883 TO 1891. 121 TO 157 ABOVE **** SEE 145 TO **** FCR 1885 TO 1895. SEF 217 ABOVE **** **** FCR 1887 TO 1901. SEE 157 TO 241 ABOVE **** SEE 1350 TO 1374 ABOVE **** **** FCR 1891 TO 1903. **** FOR 1895 TO 1905. SEF 1354 TO 1378 ABOVE **** **** FCF 1901 TO 1907. 145 TO 217 AROVE **** SEF SEE 49 TO 121 ABOVE **** **** FCR 1903 TO 1915. **** FCR 1905 TO 1919. SEE 121 TO 157 ABOVE **** **** FCR 1907 TO 1921. 145 TO 217 AROVE **** SEF 49 TO SEE 121 ABOVE **** **** FCR 1915 TC 1925. **** FCR 1919 TO 1927. SEF 121 TO 157 ABOVE **** **** FOR 1927 TO 1933. SEF 145 TO 217 ABOVE **** 529 ABOVE **** **** FOF 1929 TO 1935. SEE 493 TO **** FCR 1933 TO 1943. SEE 517 TO 589 ABOVE **** **** FCR 1929 TO 1951. SEE 541 TO 709 ABOVE **** SEE 1354 TO 1378 AROVE **** **** FCR 1943 TC 1953.

PATTERN	NCTES	RELATED TO	NOT	FS	TEST	LENGTH
**** FCR 194	9 TO 1955	• SFE	145 10	217	ABOVE *	***
**** FCR 195			493 TO	529		***
4*** FCR 195			517 10	589		***
**** FCR 195			121 TC	157		***
**** FCR 196			145 TO	217		***
**** FOR 197			493 TO	529		**
**** FCR 197			517 TO	589		***
**** FCF 198			37 TO	109		***
**** FCR 199			493 TO	529		***
**** FCR 200			517 TO	589		***
**** FOR 20C			121 TO	157		***
**** FCR 2CC			145 TO	217		***
**** FGF 2CC			493 TO	529	ABOVE *	**
**** FCR 201			517 TO	589		***
**** FCR 2C1		=	37 TO	109		***
**** FCR 201			49 10	121		***
**** FCR 201		=	121 TO	157	ABOVE *	***
**** FCR 201			145 TO	217		***
**** FCR 201			49 TO	121	ABOVE *	***
**** FCR 202			37 TO	109	ABOVE *	***
**** FCR 202			49 TO	121		***
**** FCR 202			37 TO	109	ABOVE *	***
**** FOR 202			493 10	529	ABOVE *	***
**** FOF 2C2			1446 TO	1466	ABOVE *	***
**** FCR 202		• SEF	1350 TO	1374	ABOVE *	***
**** FCF 205	1 10 2063	• SEF	1354 TO	1378	ABOVE *	***
**** FCR 205			145 TO	217	ABOVE *	***
**** FCR 2C6	3 TO 2081	• SEE	49 TO	121	ABOVE *	***
**** FCR 2C7			121 TO	157	ABOVE *	***
**** FCR 2C7	5 10 2089	• SEF	145 TO	217	ABOVE *	***
**** FCR 2CE	1 TC 2093	• SEE	45 TO	121	AROVE *	***
**** FCR 2C8	9 TO 2099	• SEF	1146 TO	1170	ABOVE *	***
**** FCR 2C9	9 10 2109	• SEE	517 TO	589	ABOVE *	***
4+++ FCR 210	3 TO 2111	• SEF	121 TO	157		***
**** FCR 210	5 TC 2113	• SEF	145 TO	217		***
**** FCR 21C	9 TO 2117	• SEF	49 TO	121	ABOVE *	***
**** FOR 211	1 TO 2119	• SEE	121 TO	157	ABOVE *	***
**** FCR 211	7 TO 2123	• SEE	145 TO	217		***
**** FCF 211	9 TO 2135	• SEE	493 10	529		***
**** FGR 212			1446 TO			***
**** FCR 212			169 TO		– . –	***
**** FCF 213			241 TO	421		***
**** FCR 213			1354 TO	1378		***
**** FCP 214			145 TO			***
**** FOR 214	7 TO 2157	• SEF	493 TO	529	ABOVE *	***

SEARCH FOR PATTERNS CF 5 NOTES IN LENGTH -TONAL RETROGRADE has begun at 2056 secends into execution.

PATTERN	NCTES	RELATED TC NOTES	TEST	LENGTH
671 672	1 TO 109 1 TO 109	1140 TO 1166 1756 TO 1770	5 5	5 5
673	1 10 109	2C81 TO 2095	5	5
674	1 10 109	2769 10 2783	5	5
675	37 TC 121	421 TO 505	5	5
676	27 10 121	781 TO 821	5	5
677	37 70 121	797 TO 853	5	5
678	37 TO 121	934 TO 952	5	5
<i>6</i> 79	37 TC 121	956 TO 970	5	5
680	37 TC 121	578 TO 1026	5 5	5 5
6E1 6E2	37 TO 121 37 TO 121	1014 TO 1042 1026 TO 1070	5	5
£83	37 TO 121	1104 TO 1126	5 5	5
684	37 10 121	1110 TO 1134	5	5
685	37 10 121	1126 TO 1142	5	5
686	37 TO 121	1134 TO 1158	5	5
687	37 TO 121	1218 TO 1274	5	5
886	37 TO 121	1328 TO 1342	5	5
Ψbc	37 10 121	1394 TO 1438	5	5 5
65 C	37 10 121	1542 TO 1580	5	
651	37 TC 121	2013 TO 2019	5	5
652	37 70 121	202C TO 2025	5 5	5
653 654	37 TO 121 37 TO 121	2365 TO 2391 2399 TO 2415	5	5 5
655	37 TO 121	2509 TO 2517	5	
656	37 10 121	2515 TO 2527	5	5 5
657	37 TC 121	2517 TO 2533	5	5
658	37 TO 121	2563 TO 2591	5	5
655	37 10 121	2566 TO 2603	5	5
7C C	37 TO 121	2659 TO 2679	5	5
7C 1	37 TO 121	2761 TO 2769	5	5
7C2	37 TO 121	2799 TO 2806	5	5
703	49 TG 133	409 TO 493	5	5
704	49 TO 133	445 TO 517	5	5
705	49 10 133	789 TO 837 930 TO 948	5 5	5 5
7C <i>E</i> 7C7	49 TO 133 49 TO 133	930 TO 948 970 TO 1022	5	5
7C 8	49 TO 133	1002 TC 1034	5	5 5
709	49 TO 133	1022 TO 1050	5	5
710	49 TO 133	1106 TO 1130	5	5
711	49 TC 133	1118 TO 1140	5	5
712	49 TO 133	1130 TO 1146	5	5
713	49 TO 133	1210 TO 1270	5	5
714	49 TC 133	1242 TO 1282	5	5

PATTERN	NCTE	S	RELATED T	c i	NOT	S	TEST	LENGTH
715	49 TO	133		1306	TO	1324	5	5
716	49 10	133		1392		1430	5	5
717	49 TO	133		1534	10	1578	5	5
718	49 10	133		1710	TO	1728	5 5	5
719	49 TO	133		2019	TO	2024		5
720	49 10	133		2021	10	2027	5	5
721	49 10	133		2175	10	2185	5	5
722	49 10	133		2253	TO	2263	5	5
723	49 10	133		2291	TO	2301	5	5
724	49 10	133		2351	TO	2363	5	5
725	49 10	133		2391	10	2411	5	5
726	49 10	133		2403	TO	2419	5	5
727	49 TO	133		2439	TO	2448	5	5
728	49 10	133		2453	TO	2459 2516	5 5	5 5
729	49 TO	133		2503	TO			5
730	49 TO	133		2513	TO	2519 2531	5 5	5
721	49 10	133		2516 2533	TO	2543	5	5
732	49 TO	133					5	5
733	49 10	133		2561	TO	2567		5
734	49 TO 49 TO	133		2565 2567	TO TO	2599 2607	5 5	5
735		133			TO			5
736 737	49 TO 49 TO	133 133		2657 2661	TO	2663 2683	5 5	5
738	49 TC	133		2757	TO	2805	5	5
	49 TO			2801	10	2807	5	5
739 ++++ FCR	73 10	133 145.	SEE		TO	121	ABOVE ***	
740	109 TO	157	SEE	773	TO	805	5	5
741	109 70	157		954	TO	966	5	5
742	109 TC	157		1102	TO	1118	5	5
743	109 10	157		1326		1338	5	5
744	169 10	157		1810	TO	1820	5	5
745	109 TC	157		1979		20C3	5	5
746	1C9 TO	157		2011	TO	2017	5	5
747	109 TO	157		2363	TO	2375	5	5
748	109 TO	157		2483	TO	2495	5	5
749	1C9 TO	157		2549	TO	2559	5	5
75C	109 TO	157		2679	TO	2695	5	5
751	109 TO	157		2715	TO	2733	5	5
752	109 TO	157		2743	TO	2761	5	5
753	109 TO	157		2759	TO	2767	5	5
754	121 TO	169		505	TO	589	5	5
755	121 TO	169		765	TO	797	5	5
756	121 10	169		894	TO	914	5	5
757	121 TO	169		1094	TO	1110	5	5
758	121 TO	169		1324	10	1334	5	5
759	121 TO	169		1726	TO	1738	5	5
76C	121 TO	169		1847		1875	5	5
761	121 TO	169		1931	TO	1943	5	5
762	121 TO	169		1975	TO	2001	5	5
763	121 TO	169		2C 03	TO		5	5
764	121 TO	169		2095	TO	2109	5	5

PATTERN	NCTES	R	ELATED TO	5 1	NOTE	ES	TEST	LENGTH
765	121 TO	169		2303	ŢΩ	2315	5	5
766	121 TO	169		2361	TO	2373	5	5
767	121 10	169		2493	TO	2503	5	5
768	121 10	169		2547	TO	2557	5	5
769	121 10	169		2711	TO	2729	5	5
770	121 TC	169		2789	TO	2797	5	5
**** FCR	121 TC	169.	SEF	121	TO	169	AROVE ***	*
771	133 TO	217	221	493	TO	541	5	5
772	133 TO	217		733	TO	789	5	5
773	133 TO	217		870	TO	910	5	5
774	133 TO	217		1086	TO	1106	5	5
775	133 TO	217		1318	TO	1328	5	5
776		217		1722	TO	1734	5	5
777	133 10	217		1929	TO	1939	5	5
778		217		1973	TΩ	1995	5	5
779		217		1995	TO	2005	5	5
78C		217		2191	TO	2219	5	5
781		217		2297	TO	2305	5	5
782	133 10	217		2359	TO	2367	5	5
783	133 TO	217		2489	TO	2499	5	5
784	133 TO	217		2707	TO	2719	5	5
785	133 TO	217		2785	TO	2795	5	5
786	145 TO	241		709	TO	781	5	5
787	145 TO	241		1768	TO	1778	5	5
788	145 TO	241		2625	TO	2633	5	5
**** FOR	145 TO	241.	SEF	145	TO	241	ABOVE ***	*
789	157 TO	373		2327	TO	2347	5	5
79 C	157 TO	373		2607	TO	2619	5	5
**** FOR	157 TO	373.	SEF	157	TO	373	ABOVE ***	*
751	241 TC	445		2323		2343	5	5
752	241 TO	445		2599		2613	5	. 5
**** FCR		445.	SEE	241		445	ABOVE ***	
793	273 TO	481		2535		2547	5	5
754	373 TO	481		2553	TO	2561	5	5
755	373 TO	481		2591	TO	2611	5	5
**** FCR		493.	SFF	49			ABOVE ***	
**** FCR **** FCR	421 TO	505.	SEE	37 49	TO TO	121 133	ABOVE ***	
**** FCR 796	445 TO 481 TC	517. 529	SEF	922	TO	946	5	5
757	481 TO	529		966	TO	1014	5	5
75.8	461 TO	529		1050		1014	5	5
7 5 5	481 TO	529		1206		1266	5	5
800	481 TC	529		1388		1422	5	5
8C 1	481 TO	529		1626	TO	1644	5	5
803	481 TC	529		1650		1682	5	5
803	481 TO	529		1708		1726	5	5
864	481 TO	525		1754		1768	5	5
805	481 10	525		1875		1887	5	5
806	481 10	529		1901	TO	1915	5	5
AC7	481 TC	529		1907		1925	5	5
808	481 TO	529				2023	5	5
				•			-	=

PATTERN	NCTES	RELATED TO	NOTES	TEST L	.ENGTH
ecs.	481 TO 529		2059 TO 2081	5	5
FIC	481 TO 529		2C75 TO 2093	5	5
811	481 TO 529		2105 TO 2117		5
812	481 TO 529		2171 TO 2183	5	5
813	481 TO 529		2247 TO 2259	5	5
814	481 TO 529		2287 TO 2299	5	5
815	481 TO 529		2349 TO 2361	5	5
F16	4E1 TC 529		2375 TO 2409	5	5
817	481 TO 529		2435 TO 2447	5	5
818	481 TO 529		2499 TO 2515	5	5
819	481 TO 529		2531 TO 2541	5	5
82 C	481 TO 529		2653 TO 2662	5	5
821	481 TO 529		2767 TO 2781	5	5
822	481 TO 529		2795 TO 2803	5	5
823	493 TO 541		914 TO 942	5	5
824	493 TO 541		1370 TO 1386	5	5
825 826	453 TO 541		1472 TO 1482	5	5
826	453 10 541		1498 TO 1526	5	5
827	493 10 541		1580 TO 1614	5	5
828	493 10 541		1706 TO 1722	5	5
825	493 TO 541		1788 TO 1814	5	5
83C	493 TC 541		1867 TO 1885	5	5
831	493 10 541		1925 TO 1933	5	5
832	493 TO 541		2055 TO 2075	5	5
833	493 10 541		2113 TO 2123	5	5
834	493 TO 541		2143 TO 2155	5	5
835 837	493 TO 541		2157 TO 2169	5	5
836	453 TO 541 453 TO 541		2187 TO 2194 2239 TO 2257	5 5	5 5
837 838			2347 TO 2359	5	5 5
				5	
83S	493 10 541		2475 TO 2487 2651 TO 2661	5	5 5
84C	493 TO 541 493 TO 541		2651 TO 2661 2701 TO 2711	5	5
841		CEE	493 TO 541		
**** FCR 847	493 TO 541 505 TO 589		502 TO 930		5
843	505 10 589		1470 TO 1480		5
844	505 10 589		1482 TO 1506	5	5
845	505 TO 589		1554 TO 1586	5	5
846	5C5 TO 589		1690 TO 1710	5	5
847	505 10 589		1774 TO 1788	5	5
248	505 TO 589		1863 TO 1883	5	5
P49	505 TO 589		1919 TO 1929	5	5
850	505 TO 589		2111 TO 2121	5	5
851	505 10 589		2155 TO 2167	5	5
852	505 TO 589		2185 TO 2193	5	5
853	505 10 589		2345 TO 2355	5	5
854	505 TC 589		2695 TO 2705		5
855	613 TO 773		2537 TO 2549		5
856	709 10 781		1338 TO 1370		5
857	709 70 781		1506 TO 1534		5
858	709 TO 781		1885 TO 1901	5	5
	-				

PATTERN	NCTE	S RELAT	ED T	o 1	TOV	ES	TEST	LENGTH
£59 £60	7C9 TO 7C9 TO	781 781	655	2321 2633	TO TO	2339 2647	5 5	5
**** FCR	733 TO	789.	SEF	493	10	541	ABOVE ***	•
**** FCR	765 10	797•	SEF	505	TO	589	ABOVE ***	· •
861	773 TC	805		942 958	TO TO	954 978	5 5	5 5
862	773 10	805			TO		5	5
863	773 10	805		1034 1070	TO	1074	5	5
864	773 10	805		1198	TO	1218	5	5
865	773 TO 773 TO	805 805		1330	TO	1350	5	5
866 867	773 TC	805		1398	TO	1446	5	5
E 6 8	773 TO	805		1466	TO	1476	5	5
£69	773 TC	805		1546	70	1582	5	5
870	773 TO	805		1630	TC	1646	5	5
£71	773 10	8C5		1662	TO	1686	5	5
872	773 10	805		1881	TO	1891	5	5
873	773 TC	805		1903	TO	1919	5	5
£ 74	773 10	805		1915	TO	1927	5	5
875	773 TO	805		2015	TO	2020	5	5
876	773 10	805		2063	TO	2083	5	5
877	773 TO	805		2109	TO	2119	5	5
P78	773 TO	805		2343	TO	2351	5	5
£79	773 TO	805		2367	TO	2399	5	5
88 C	773 TO	805		2519	TO	2535	5	5
881	773 10	805		2763	TO	2773	5	5
**** FCR	781 TO	821.	SEF	37	TO	121	ABOVE ***	*
**** FCR	789 TO	837.	SEF	49	TO	133	AROVE ***	*
**** FCF	757 TO	853.	SEF	37	TO	121	ABOVE ***	t ak
**** FCR	805 TO	869•	SEE	49	TO	133	AROVE ***	*
**** FCR	821 TO	870.	SEE	37	TO	121	ABOVE ***	*
**** FCR	£37 TO	894•	SEE	109	TO	157	ABOVE ***	**
**** FCR	£70 TO	910.	SEF	493	TO	541	ABOVE ***	•
**** FCR	894 TC	914.	SEE	505	TO	589	ABOVE ***	
882	858 TO	922		1274	TO	1302	5	5
£ £ 3	858 TO	922		1382	TO	1394	5 5	5 5
884	898 10	922		1480 1590	TO TO	1498	5	5
885	858 TO 858 TO	922		1646	TO	1638 1666	5	5
886 887	658 TO 858 TO	922 922		1686	TO	1708	5	5
883	858 TO	922		1728	10	1742	5	5
889	858 TC	922		1742	TO	1758	5	5
890	858 TO	922		1772	TO	1784	5	5
851	858 TO	922		1819	TO	1827	5	5
897	898 TO	922		1855	TO	1881	5	5
653	858 TG	922		1553	TO	1975	5	5
894	858 TO	922		2004	TC	2011	5	5
855	858 TO	922		2099	TO	2111	5	5
856	898 10	922		2151	TO	2165	5	5
£ 5 7	858 TO	922		2167	TO	2177	5	5
858	858 TC	922		2183		2191	5	5
१९९	858 10	922		2277	TO	2293	5	5

PATTERN	NCTE	S RELAT	FD TI	C 1	тои	ES	TEST	LENGTH
900	858 TO	922		2495	TO	2509	5	5
SC1	858 TO	922		2629	TO	2639	5	5
90 <i>2</i>	858 TO	922		2693	TO	2701	5	5
903	898 TO	922		2729	TO	2743	5	5
904	858 10	922		2791	TO	2799	5	5
**** FOR	502 TO	930•	SFE	121	TO	169		**
**** FOR	914 TO	942.	SFF	133	TO	217	AUGIL	**
905	922 10	546		1266	TG	1286	5	5
906	522 TO	946		1314	TO	1326	5	5
907	922 TO	946		1718	TO	1732	5	5
9 08	922 TC	946		1814	T 0	1822	5	5
909	522 TO	946		1987	10	2004	5	5
910	522 TO	946		2023	TO	2051	5 5	5 5
911	922 TO	946		2177 2255	TO TO	2187 2267	5	5
512 513	922 TO 522 TO	946 946		2293	TO	2303	5	5
913 914	522 TO	946		2355	TO	2365	5	5
915	922 TO	946		2409	TO	2423	5	5
916 916	522 TO	546		2441	TO	2449	5	5
917	522 TO	546		2455	TO	2467	5	5
918	922 TO	946		2487	TO	2497	5	5
¢ 19	522 TO	946		2662	TO	2687	5	5
520	522 TO	946		2683	TO	2697	5	5
521	922 TO	946		2719	TO	2735	5	5
522	\$22 TO	946		2751	TO	2763	5	5
**** FCR	930 TO	548 •	SFE	49	TO	133	ABOVE **	**
**** FCR	934 TC	952.	SEE	37	TO	121	AROVE **	**
4*** FCR	542 TC	954.	SEE	109	TO	157	ABOVE **	**
4*** FCR	946 TO	956.	SEF	853	TO	898	ABOVE **	**
**** FGR	548 TO	958 •	SEE	869	TO	902	74.30 V C	**
973	952 TO	962		962	TO	1002	5	5
524	952 TO	962		1042	TO	1082	5	5
925	552 TO	962		1074	TO	1102	5	5
526	552 TO	962		1202	TO	1242	5	5
927	952 TO	962		1234	TO	1354 1358	5 5	5 5
978 979	552 TO 552 TO	962		1422	TO	1454	5	5
93C	552 TO	962 962		1614	10	1640	5	5
931	552 TO	962		1638	TO	1648	5	5
932	552 TO	962		1648	TO	1674	5	5
933	552 10	962		1666	TO	1690	5	5
934	\$52 TO	562		1732	TO	1752	5	5
925	552 TO	962		1752	TO	1762	5	5
936	952 TC	962		1820	10	1828	5	5
927	952 TO	962		1883	TO	1895	5	5
c 38	552 10	962		1905	10	1921	5	5
939	952 TO	962		1955	TO	1979	5	5
940	552 TO	962		2005	TO	2013	5	5
541	552 TO	962		2016	TO	2021	5	5
942	952 10	962		2071	10	2089	5	5
543	952 10	562		2103	10	2113	5	5

944	PATT	FRN	1	NCT	FS	RELATED TO	- I	NOTE	E S	TES	5 T	LENG TH
\$\frac{46}{947}\$ \$\frac{62}{52}\$ \$\tau{0}\$ \$\frac{66}{962}\$ \$2497\$ \$\tau{0}\$ \$2513\$ \$\frac{5}{5}\$ \$\frac{64}{948}\$ \$\frac{52}{52}\$ \$\tau{0}\$ \$\frac{66}{2}\$ \$2497\$ \$\tau{0}\$ \$\tau{0}\$ \$\tau{0}\$ \$\frac{5}{5}\$ \$\frac{5}{5}\$ \$\frac{64}{948}\$ \$\frac{52}{52}\$ \$\tau{0}\$ \$\frac{62}{2}\$ \$\tau{0}\$ \$0	944	4	952	TO	962		2169	TO	2181			
948 552 TO 962 2497 TO 2513 5 5 5 948 552 TO 962 2577 TO 2537 5 5 5 949 552 TO 962 2631 TO 2645 5 5 5 950 952 TO 962 2733 TO 2755 5 5 951 552 TO 962 2765 TO 2775 5 5 952 TO 962 2765 TO 2775 5 5 952 TO 962 27793 TO 2801 5 5 9952 TO 962 27793 TO 2801 5 5 9952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 5 952 TO 962 27793 TO 2801 5 5 952 TO 952	94	5	952	10	962							
948 952 TO 962 2631 TO 2645 5 5 5 950 952 TO 962 2733 TO 2751 5 5 5 951 952 TO 962 2733 TO 2751 5 5 5 952 TO 962 2733 TO 2751 5 5 5 952 TO 962 2763 TO 2775 5 5 5 952 TO 962 2763 TO 2775 5 5 5 952 TO 962 2763 TO 2775 5 5 5 952 TO 962 2763 TO 2775 5 5 5 952 TO 962 2763 TO 2775 5 5 5 952 TO 962 2763 TO 2801 5 5 5 952 TO 962 2763 TO 2801 5 5 5 952 TO 962 2763 TO 2801 5 5 952 TO 962 TO 964 PRIVE PRI 100 1014	540	5	952	TO	962							
\$ 550 \$52 TO \$62 \$2733 TO 2751 \$5 \$5 \$5 \$5 \$50 \$52 TO \$62 \$2733 TO 2751 \$5 \$5 \$5 \$5 \$55 \$75 \$75 \$75 \$75 \$75 \$75	94	7	952	TO	962		2497					
950												5
951												
952												5
#### FCR 954 TC 966. #### FCR 956 TO 970. #### FCR 958 TO 978. #### FCR 966 TO 1002. #### FCR 966 TO 1014. ### FCR 966 TO 1014. ### FCR 970 TO 1022. #### FCR 970 TO 1022. #### FCR 970 TO 1022. #### FCR 970 TO 1024. #### FCR 1002 TO 1034. #### FCR 1002 TO 1034. #### FCR 1002 TO 1034. #### FCR 1022 TO 1050. #### FCR 1026 TO 1070. #### FCR 1026 TO 1082. #### FCR 1026 TO 1082. #### FCR 1026 TO 1082. #### FCR 1050 TO 1082. #### FCR 1050 TO 1084. #### FCR 1050 TO 1094. #### FCR 1050 TO 1094. #### FCR 1050 TO 1094. #### FCR 1065 TO 1104. #### FCR 1067 TO 1104. #### FCR 1067 TO 1104. #### FCR 1068 TO 1106. #### FCR 1068 TO 1106. #### FCR 1069 TO 1118. #### FCR 1102 TO 1118. #### FCR 1104 TO 1130. #### FCR 1105 TO 1146. #### FCR 1106 TO 1130. #### FCR 1106 TO 1130. #### FCR 1107 TO 1144. #### FCR 1107 TO 1144. #### FCR 1108 TO 1146. #### FCR 1108 TO 1146. #### FCR 1108 TO 1146. #### FCR 1109 TO 1210. ##### FCR 1109 TO 1210. ###################################												
**** FOR 556 TO 570. **** FCR 558 TO 578. **** FCR 568 TO 578. **** FCR 562 TO 1002. **** FCR 966 TO 1014. **** FCR 966 TO 1014. **** FCR 966 TO 1014. **** FCR 970 TO 1C22. **** FCR 970 TO 1C22. **** FCR 970 TO 1C22. **** FCR 1002 TC 1034. **** FCR 1024 TO 1042. **** FCR 1025 TO 1050. **** FCR 1026 TO 1070. **** FCR 1026 TO 1070. **** FCR 1026 TO 1074. **** FCR 1026 TO 1074. **** FCR 1027 TO 1082. **** FCR 1024 TO 1082. **** FCR 1025 TO 1086. **** FCR 1070 TO 1094. **** FCR 1070 TO 1104. **** FCR 1070 TO 1106. **** FCR 1070 TO 11										_		_
**** FCR												
#### FCR	· ·											
#### FOR 966 TO 1014. SEE 522 TO 946 AROVE **** #### FOR 970 TO 1022. SEE 49 TO 133 AROVE **** #### FOR 1002 TO 1034. SEE 49 TO 133 AROVE **** #### FOR 1002 TO 1034. SEE 49 TO 133 AROVE **** #### FOR 1022 TO 1050. SEE 49 TO 133 AROVE **** #### FOR 1022 TO 1050. SEE 49 TO 133 AROVE **** #### FOR 1026 TO 1070. SEE 49 TO 133 AROVE **** #### FOR 1026 TO 1070. SEE 49 TO 133 AROVE **** #### FOR 1026 TO 1070. SEE 49 TO 133 AROVE **** #### FOR 1026 TO 1070. SEE 49 TO 137 AROVE **** #### FOR 1026 TO 1082. SEE 853 TO 898 AROVE **** #### FOR 1050 TO 1086. SEE 853 TO 898 AROVE **** #### FOR 1070 TO 1094. SEE 109 TO 157 AROVE **** #### FOR 1070 TO 1094. SEE 109 TO 157 AROVE **** #### FOR 1070 TO 1094. SEE 869 TO 902 AROVE **** #### FOR 1084 TO 1100. SEE 493 TO 541 AROVE **** #### FOR 1084 TO 1110. SEE 505 TO 589 AROVE **** #### FOR 1064 TO 1110. SEE 505 TO 589 AROVE **** #### FOR 1106 TO 1130. SEE 49 TO 133 AROVE **** #### FOR 1106 TO 1134. SEE 37 TO 121 AROVE **** #### FOR 1110 TO 1134. SEE 49 TO 133 AROVE **** #### FOR 1110 TO 1134. SEE 37 TO 121 AROVE **** #### FOR 1110 TO 1146. SEE 49 TO 133 AROVE **** #### FOR 1110 TO 1146. SEE 49 TO 133 AROVE **** #### FOR 1110 TO 1146. SEE 37 TO 121 AROVE **** #### FOR 1110 TO 1146. SEE 37 TO 121 AROVE **** #### FOR 1126 TO 1142. SEE 37 TO 121 AROVE **** #### FOR 1126 TO 1142. SEE 37 TO 121 AROVE **** #### FOR 1126 TO 1142. SEE 37 TO 121 AROVE **** #### FOR 1126 TO 1206. SEE 49 TO 133 AROVE **** #### FOR 1266 TO 1206. SEE 49 TO 133 AROVE **** #### FOR 1266 TO 1266. SEE 377 TO 121 AROVE **** #### FOR 1208 TO 1210. SEE 377 TO 121 AROVE **** #### FOR 1208 TO 1210. SEE 377 TO 121 AROVE **** #### FOR 1208 TO 1210. SEE 377 TO 121 AROVE **** #### FOR 1208 TO 1206. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1206. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1206. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1208. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1208. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1208. SEE 37 TO 121 AROVE **** #### FOR 1208 TO 1208. SEE		_										
#### FCR												
#### FCF 1002 TO 1026. #### FCF 1002 TO 1034. #### FCF 1014 TO 1042. #### FCF 1014 TO 1042. #### FCF 1012 TO 1050. #### FCF 1022 TO 1050. #### FCF 1026 TO 1070. #### FCF 1026 TO 1070. #### FCF 1034 TO 1074. #### FCF 1034 TO 1074. #### FCF 1034 TO 1082. #### FCF 1050 TO 1086. #### FCF 1050 TO 1086. #### FCF 1070 TO 1094. #### FCF 1070 TO 1004. #### FCF 1070 TO 1004. #### FCF 1070 TO 1004. #### FCF 1086 TO 1106. #### FCF 1106 TO 1130. #### FCF 1106 TO 1130. #### FCF 1106 TO 1134. #### FCF 1110 TO 1134. #### FCR 1130 TO 1146. #### FCR 1130 TO 1206. #### FCR 1138 TO 1206. #### FCR 1138 TO 1210. #### FCR 1218 TO 1206. #### FCR 1218 TO 1270. #### FCR 1218 TO 1270. #### FCR 1242 TO 1282. #### FCR 1242 TO 1282. #### FCR 1250 TO 1294. #### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. #### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. ###################################												
**** FCR 1002 TO 1034. **** FCR 1014 TO 1042. **** FCR 1021 TO 1050. **** FCR 1026 TO 1070. **** FCR 1026 TO 1070. **** FCR 1034 TO 1074. **** FCR 1034 TO 1082. **** FCR 1050 TO 1086. **** FCR 1050 TO 1086. **** FCR 1050 TO 1086. **** FCR 1070 TO 1094. **** FCR 1071 TO 1094. **** FCR 1074 TO 1102. **** FCR 1074 TO 1102. **** FCR 1075 TO 104. **** FCR 1086 TO 1106. **** FCR 1090 TO 157 ABOVE **** **** FCR 1090 TO 157 ABOVE **** **** FCR 1090 TO 1094. **** FCR 1086 TO 1108. **** FCR 1086 TO 1106. **** FCR 1086 TO 1106. **** FCR 1102 TO 1118. **** FCR 1102 TO 1118. **** FCR 1104 TO 1126. **** FCR 1106 TO 1130. **** FCR 1106 TO 1130. **** FCR 1106 TO 1130. **** FCR 1106 TO 1140. **** FCR 1118 TO 1140. **** FCR 1118 TO 1140. **** FCR 1130 TO 1146. **** FCR 1130 TO 1210. **** FCR 1130 TO 1210. **** FCR 1158 TO 1210. **** FCR 1158 TO 1210. **** FCR 128 TO 1222. **** FCR 128 TO 1242. **** FCR 128 TO 1270. **** FCR 128 TO 1282. **** FCR 128 TO 1294. **** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. **												
**** FCR 1C14 TO 1042. **** FCR 1022 TO 1C50. **** FCR 1026 TO 1C70. **** FCR 1027 TO 1082. **** FCR 1027 TO 1082. **** FCR 1050 TO 1086. **** FCR 1050 TO 1086. **** FCR 1050 TO 1086. **** FCR 1050 TO 1094. **** FCR 1065 TO 1106. **** FCR 1086 TO 1106. **** FCR 1094 TO 1110. **** FCR 1102 TO 1118. **** FCR 1102 TO 1118. **** FCR 1104 TO 1126. **** FCR 1106 TO 1130. **** FCR 1106 TO 1130. **** FCR 1106 TO 1140. **** FCR 1106 TO 1146. **** FCR 1130 TO 1210. **** FCR 1180 TO 1210. **** FCR 1190 TO 1210. **** FCR 1190 TO 1210. **** FCR 1200 TO 1242. **** FCR 1200 TO 1270. **** FCR 1218 TO 1270. **** FCR 1242 TO 1282. **** FCR 1242 TO 1282. **** FCR 1242 TO 1284. **** FCR 1242 TO 1284. **** FCR 1250 TO 1294. **** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. ****** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. ***** FCR 1270 TO 1294.										-		
#### FCR 1022 TO 1C50. #### FCR 1022 TO 1C50. #### FCR 1024 TO 1C70. #### FCR 1034 TO 1C70. #### FCR 1042 TO 1082. #### FCR 1050 TO 1C86. #### FCR 1070 TO 1094. #### FCR 1086 TO 1100. #### FCR 1086 TO 1104. #### FCR 1086 TO 1106. #### FCR 1094 TO 1110. #### FCR 1094 TO 1110. #### FCR 1002 TO 1118. #### FCR 1002 TO 1118. #### FCR 1002 TO 1134. #### FCR 1106 TO 1130. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1140. #### FCR 1130 TO 1146. #### FCR 1134 TO 1158. #### FCR 1134 TO 1158. #### FCR 1190 TO 1210. #### FCR 122 TO 1242. #### FCR 122 TO 1242. #### FCR 1210 TO 1270. #### FCR 1210 TO 1270. #### FCR 1210 TO 1270. #### FCR 1210 TO 1294. #### FCR 1270 TO 1294.												
#### FCR 1026 TO 1070. #### FCR 1026 TO 1070. #### FCR 1034 TO 1074. #### FCR 1042 TO 1082. #### FCR 1042 TO 1082. #### FCR 1050 TO 1086. #### FCR 1050 TO 1086. #### FCR 1070 TO 1094. #### FCR 1086 TO 106. #### FCR 1086 TO 1106. #### FCR 1094 TO 1110. #### FCR 1094 TO 1110. #### FCR 1004 TO 1110. #### FCR 1004 TO 1110. #### FCR 1004 TO 1130. #### FCR 1106 TO 1130. #### FCR 1106 TO 1130. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1144. #### FCR 1126 TO 1142. #### FCR 1130 TO 1146. #### FCR 1134 TO 1158. #### FCR 1134 TO 1158. #### FCR 1182 TO 1206. #### FCR 1190 TO 1210. #### FCR 1190 TO 1210. #### FCR 1206 TO 1242. #### FCR 1206 TO 1242. #### FCR 1210 TO 1270. #### FCR 1210 TO 1270. #### FCR 1210 TO 1270. #### FCR 1210 TO 1294. #### FCR 1270 TO 1270. ##### FCR 1270 TO 1294. #### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. #### FCR 1270 TO 1294. ##### FCR 1270 TO 1270. ##### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. ###################################												
#### FCR 1C34 TO 1C74. #### FCR 1C42 TO 1082. #### FCR 1C42 TO 1082. #### FCR 1C50 TO 1C86. #### FCR 1C70 TO 1094. #### FCR 1C70 TO 1094. #### FCR 1C70 TO 1094. #### FCR 1C74 TO 1102. #### FCR 1C74 TO 1102. #### FCR 1C62 TO 1104. #### FCR 1C62 TO 1104. #### FCR 1C64 TO 1106. #### FCR 1C64 TO 1106. #### FCR 1C64 TO 1110. #### FCR 1C65 TO 1146. #### FCR 1C65 TO 1146. #### FCR 1C66 TO 1C66. ##### FCR 1C66 TO 1C66. #### FCR 1C66 TO 1C66. ##### FCR 1C66 TO 1C66. ##### FCR 1C66 TO 1C66. ##################################												
**** FCR 1C42 TO 1082. **** FCR 1C50 TO 1C86. **** FCR 1C50 TO 1C86. **** FCR 1C70 TO 1094. **** FCR 1C70 TO 1102. **** FCR 1C70 TO 1102. **** FCR 1C70 TO 1104. **** FCR 1C86 TO 1106. **** FCR 1C86 TO 1106. **** FCR 1C86 TO 1106. **** FCR 1C94 TO 1110. **** FCR 1C94 TO 1110. **** FCR 1C94 TO 1110. **** FCR 1102 TO 1118. **** FCR 1102 TO 1118. **** FCR 1106 TO 1130. **** FCR 1106 TO 1130. **** FCR 1106 TO 1130. **** FCR 1110 TO 1134. **** FCR 1110 TO 1134. **** FCR 1110 TO 1134. **** FCR 1110 TO 1142. **** FCR 1110 TO 1142. **** FCR 1130 TO 1146. **** FCR 1130 TO 1190 ***** **** FCR 1182 TO 1206. **** FCR 1182 TO 1206. **** FCR 1182 TO 1210. **** FCR 1190 TO 1210. **** FCR 1190 TO 1210. **** FCR 1190 TO 1210. **** FCR 1206 TO 1266. **** FCR 1206 TO 1266. **** FCR 1218 TO 1270. **** FCR 1218 TO 1294. **** FCR 1270 TO 1294. ***** FCR 1270 TO 1294. ***********************************							-					
#### FCF 1050 TO 1086. #### FCF 1070 TO 1094. #### FCR 1070 TO 10094. #### FCR 1070 TO 1102. #### FCR 1071 TO 1102. #### FCR 1072 TO 1104. #### FCR 1086 TO 1106. #### FCR 1086 TO 1106. #### FCR 1092 TO 1110. #### FCR 1094 TO 1110. #### FCR 1094 TO 1110. #### FCR 1102 TO 1118. #### FCR 1102 TO 1118. #### FCR 1104 TO 1126. #### FCR 1106 TO 1130. #### FCR 1100 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1144. #### FCR 1110 TO 1146. #### FCR 1130 TO 1206. #### FCR 1182 TO 1206. #### FCR 1190 TO 1210. #### FCR 1190 TO 1210. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1218 TO 1270. #### FCR 1218 TO 1282. #### FCR 1266 TC 1286. #### FCR 1270 TO 1294. ###### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. ###################################												
#### FCR 1C70 TO 1094, SEF 1C9 TO 157 ABOVE #### #### FCR 1C74 TO 1102, SEF 853 TO 898 ABOVE #### #### FCR 1C87 TO 1104, SEF 869 TO 902 ABUVE #### #### FCR 1C86 TO 1106, SEE 493 TO 541 ABOVE #### #### FCR 1C94 TO 1110, SEE 505 TO 589 ABOVE #### #### FCR 1C94 TO 1110, SEE 505 TO 589 ABOVE #### #### FCR 1C94 TO 1118, SEF 773 TO 805 ABOVE #### #### FCR 1104 TO 1126, SEE 37 TO 121 ABOVE #### #### FCR 1106 TO 1130, SEE 49 TO 133 ABOVE #### #### FCR 1110 TO 1134, SEF 37 TO 121 ABOVE #### #### FCR 1110 TO 1134, SEF 37 TO 121 ABOVE #### #### FCR 1118 TO 1140, SEE 49 TO 133 ABOVE #### #### FCR 1130 TO 1142, SEF 37 TO 121 ABOVE #### #### FCR 1130 TO 1146, SEF 49 TO 133 ABOVE #### #### FCR 1134 TO 1158, SEE 37 TO 121 ABOVE #### #### FCR 1136 TO 1190 2325 TO 2345 5 5 954 1166 TO 1190 2325 TO 2345 5 5 955 1166 TO 1190 2325 TO 2345 5 5 954 1166 TO 1190 2325 TO 2345 5 5 954 1166 TO 1190 2325 TO 2345 5 5 955 1166 TO 1190 SEE 373 TO 481 ABOVE #### #### FCR 1188 TO 1206, SEF 613 TO 773 ABOVE #### #### FCR 1190 TO 1210, SEE 373 TO 481 ABOVE #### #### FCR 1206 TO 1242, SEF 853 TO 898 ABOVE #### #### FCR 1206 TO 1266, SEF 922 TO 946 ABOVE #### #### FCR 1210 TO 1270, SEE 49 TO 133 ABOVE #### #### FCR 1210 TO 1270, SEE 49 TO 133 ABOVE #### #### FCR 1210 TO 1274, SEF 37 TO 121 ABOVE #### #### FCR 1227 TO 1286, SEF 49 TO 133 ABOVE #### #### FCR 1210 TO 1270, SEE 49 TO 133 ABOVE #### ##### FCR 1210 TO 1270, SEE 49 TO 133 ABOVE #### ##### FCR 1210 TO 1270, SEE 49 TO 133 ABOVE #### ##### FCR 1242 TO 1286, SEF 49 TO 133 ABOVE #### ################################		_										
### FCR 1C74 TO 1102. #### FCR 1C82 TO 1104. #### FCR 1C82 TO 1104. #### FCR 1C86 TO 1106. #### FCR 1C86 TO 1106. #### FCR 1C84 TO 1110. #### FCR 1C94 TO 1110. #### FCR 1C94 TO 1110. #### FCR 1C94 TO 1110. #### FCR 1102 TO 1118. #### FCR 1104 TO 1126. #### FCR 1106 TO 1130. #### FCR 1106 TO 1130. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1118 TO 1140. #### FCR 1130 TO 1146. #### FCR 1130 TO 1146. #### FCR 1130 TO 1146. #### FCR 1134 TO 1158. #### FCR 1134 TO 1190 #### FCR 1182 TO 1206. #### FCR 1190 TO 1210. #### FCR 1190 TO 1210. #### FCR 1190 TO 1210. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1218 TO 1270. #### FCR 1218 TO 1270. #### FCR 1218 TO 1274. #### FCR 1218 TO 1294. #### FCR 1270 TO 1294. ##### FCR 1270 TO 1294. ###################################											***	*
##** FCR 1CE? TO 1104. ##** FCR 1C86 TO 1106. ##** FCR 1C94 TO 1110. ##** FCR 1C94 TO 1126. ##** FCR 1C94 TO 1130. ##** FCR 1C94 TO 1130. ##** FCR 1C94 TO 1C94. ##** FCR 1C96 TO 1C94. ##*** FCR 1C96 TO 1C94. ##*** FCR 1C96 TO 1C94. ##*** FCR 1C96 TO 1C96. ##*** FCR 1C96 TO 1C96. ##											***	*
**** FCR 1C86 TO 1106, SEE 493 TO 541 ABOVE **** **** FCR 1C94 TO 1110, SEE 505 TO 589 ABOVE **** **** FCR 1102 TO 1118, SEF 773 TO 805 ABOVE **** **** FCR 1104 TO 1126, SEE 37 TO 121 ABOVE **** **** FCR 1106 TO 1130, SEE 49 TO 133 ABOVE **** **** FCR 1110 TO 1134, SEF 37 TO 121 ABOVE **** **** FCR 1118 TO 1140, SEE 49 TO 133 ABOVE **** **** FCR 1118 TO 1140, SEE 49 TO 133 ABOVE **** **** FCR 1130 TO 1142, SEF 37 TO 121 ABOVE **** **** FCR 1130 TO 1146, SEF 49 TO 133 ABOVE **** **** FCR 1130 TO 1146, SEF 49 TO 133 ABOVE **** **** FCR 1130 TO 1146, SEF 37 TO 121 ABOVE **** 953 1166 TO 1190 2325 TO 2345 5 954 1166 TO 1190 2325 TO 2345 5 955 1166 TO 1190 2325 TO 2345 5 55 5 **** FCR 1182 TO 1206, SEF 613 TO 773 ABOVE **** **** FCR 1190 TO 1210, SEE 373 TO 481 ABOVE **** **** FCR 1206 TO 1266, SEF 922 TO 968 ABOVE **** **** FCR 1206 TO 1266, SEF 922 TO 968 ABOVE **** **** FCR 1218 TO 1270, SEF 49 TO 133 ABOVE **** **** FCR 1218 TO 1270, SEF 49 TO 133 ABOVE **** **** FCR 1218 TO 1274, SEF 37 TO 121 ABOVE **** **** FCR 1218 TO 1274, SEF 37 TO 121 ABOVE **** **** FCR 1218 TO 1274, SEF 49 TO 133 ABOVE **** **** FCR 1226 TO 1286, SEF 49 TO 133 ABOVE **** **** FCR 1266 TO 1286, SEF 49 TO 133 ABOVE **** **** FCR 1270 TO 1294, SEF 481 TO 529 ABOVE **** **** FCR 1270 TO 1294, SEF 481 TO 529 ABOVE **** **** FCR 1270 TO 1294, SEF 952 TO 962 ABOVE **** **** FCR 1270 TO 1294, SEF 858 TO 922 ABOVE ****	***							TO	902	ABUVE	***	*
#### FCR 1102 TO 1118. SEF 773 TO 805 ABOVE **** #### FCR 1104 TO 1126. SEE 37 TO 121 ABOVE **** #### FCR 1106 TO 1130. SEE 49 TO 133 ABOVE **** #### FCR 1110 TO 1134. SEF 37 TO 121 ABOVE **** #### FCR 1118 TO 1140. SEE 49 TO 133 ABOVE **** #### FCR 1118 TO 1140. SEE 49 TO 133 ABOVE **** #### FCR 1130 TO 1146. SEF 37 TO 121 ABOVE **** #### FCR 1130 TO 1146. SEF 49 TO 133 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 2145 5 5 #### FCR 1166 TO 1190 2325 TO 2345 5 5 #### FCR 1166 TO 1190 2603 TO 2615 5 #### FCR 1182 TO 1206. SEF (13 TO 773 ABOVE **** #### FCR 1178 TO 1210. SEE 373 TO 481 ABOVE **** #### FCR 1206 TO 1242. SEF 853 TO 898 ABOVE **** #### FCR 1206 TO 1242. SEF 853 TO 898 ABOVE **** #### FCR 1218 TO 1270. SEE 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEE 37 TO 121 ABOVE **** #### FCR 1218 TO 1274. SEE 37 TO 121 ABOVE **** #### FCR 1266 TO 1286. SEF 49 TO 133 ABOVE **** #### FCR 1270 TO 1294. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1270 TO 1294. SEE 898 TO 922 ABOVE ****	***							TO	541	ABOVE	***	*
#### FCF 1104 TO 1126. SEE 37 TO 121 ABOVE **** #### FCR 1106 TO 1130. SEE 49 TO 133 ABOVE **** #### FCR 1110 TO 1134. SEF 37 TO 121 ABOVE **** #### FCR 1118 TO 1140. SEF 49 TO 133 ABOVE **** #### FCR 1118 TO 1140. SEF 49 TO 133 ABOVE **** #### FCR 1130 TO 1146. SEF 49 TO 133 ABOVE **** #### FCR 1130 TO 1146. SEF 49 TO 133 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** #### FCR 1134 TO 1190 2325 TO 2345 5 5 #### FCR 1182 TO 1206. SEF 613 TO 773 ABOVE **** #### FCR 1182 TO 1210. SEE 373 TO 481 ABOVE **** #### FCR 1222 TO 1242. SEF 853 TO 898 ABOVE **** #### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FCR 1218 TO 1270. SEE 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FCR 1266 TO 1286. SEF 49 TO 133 ABOVE **** #### FCR 1266 TO 1286. SEE 49 TO 133 ABOVE **** #### FCR 1266 TO 1286. SEE 49 TO 133 ABOVE **** #### FCR 1266 TO 1286. SEE 49 TO 133 ABOVE **** #### FCR 1266 TO 1286. SEE 49 TO 133 ABOVE **** #### FCR 1266 TO 1286. SEE 49 TO 133 ABOVE **** ##### FCR 1266 TO 1286. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****	1+++	FCR	1094	TO	1110.	SEE	505	TO	58 9	ABOVE	***	*
#### FCR 1106 TO 1130. #### FCR 1110 TO 1134. #### FCR 1110 TO 1134. #### FCR 1118 TO 1140. #### FCR 1130 TO 1146. #### FCR 1130 TO 1146. #### FCR 1134 TO 1158. #### FCR 1166 TO 1190 #### FCR 1166 TO 1190 #### FCR 1182 TO 1206. #### FCR 1182 TO 1206. #### FCR 1190 TO 1210. #### FCR 1198 TC 1218. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1218 TO 1270. #### FCR 1218 TO 1274. #### FCR 1242 TO 1282. #### FCR 1266 TC 1286. #### FCR 1270 TO 1294. #### FCR 1270 TO 1294. #### FCR 1270 TO 1294. #### FCR 1270 TO 1302. #### FCR 1271 TO 1302. ##### FCR 1271 TO 1302. ###################################	4***	FCR	1102	TO	1118	SEF	773		805	ABOVE	***	*
#### FCR 1110 TO 1134. #### FCR 1118 TO 1140. SEE 49 TO 133 ABOVE **** #### FOR 1126 TO 1142. SEE 37 TO 121 ABOVE **** #### FCR 1130 TO 1146. SEE 49 TO 133 ABOVE **** #### FCR 1130 TO 1146. SEE 49 TO 133 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** 953 1166 TO 119C 2123 TO 2145 5 5 5 954 1166 TO 119O 2325 TO 2345 5 5 5 955 1166 TO 119O 2603 TO 2615 5 5 #### FCR 1182 TO 1206. SEF 613 TO 773 ABOVE **** #### FCR 1190 TO 1210. SEE 373 TO 481 ABOVE **** #### FCR 1206 TO 1266. SEF 109 TO 157 ABOVE **** #### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FCR 1218 TO 1270. SEE 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEE 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEE 49 TO 133 ABOVE **** #### FCR 1242 TO 1286. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEE 858 TO 922 ABOVE ****	****	FCF	1104	TO	1126.	SEE	37	TO	121	ABOVE	***	*
#### FCR 1118 TO 1140. #### FOR 1126 TO 1142. #### FOR 1126 TO 1142. #### FCR 1130 TO 1146. #### FCR 1130 TO 1146. #### FCR 1134 TO 1158. #### FCR 1134 TO 1158. #### FCR 1134 TO 1158. #### FCR 1134 TO 1190 #### FCR 1182 TO 1206. #### FCR 1182 TO 1206. #### FCR 1190 TO 1210. #### FCR 1198 TC 1218. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1206 TO 1266. #### FCR 1218 TO 1270. #### FCR 1218 TO 1274. #### FCR 1242 TO 1282. #### FCR 1266 TC 1286. #### FCR 1270 TO 1294. #### FCR 1270 TO 1294. #### FCR 1270 TO 1294. #### FCR 1274 TO 1302. #### FCR 1274 TO 1302. ##### FCR 1274 TO 1302. ###################################	4***	FCR	1106	TO	1130	SEE	49	TO	133			
#### FOR 1126 TO 1142. SEF 37 TO 121 ABOVE **** #### FCR 1130 TO 1146. SEF 49 TO 133 ABOVE **** #### FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** 953 1166 TO 1190 2123 TO 2145 5 5 954 1166 TO 1190 22325 TO 2345 5 5 955 1166 TO 1190 2603 TO 2615 5 5 #### FCR 1182 TO 1206. SEF 613 TO 773 ABOVE **** #### FCR 1190 TO 1210. SEE 373 TO 481 ABOVE **** #### FCR 1206 TO 1242. SEF 853 TO 898 ABOVE **** #### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FCR 1218 TO 1274. SEE 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEF 49 TO 133 ABOVE **** #### FCR 1270 TO 1294. SEF 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1270 TO 1294. SEE 898 TO 922 ABOVE ****	****	FCR	1110	TO	1134							
**** FCR 1130 TO 1146. SEF 49 TO 133 ABOVE **** **** FCR 1134 TO 1158. SEE 37 TO 121 ABOVE **** 953 1166 TO 1190 2123 TO 2145 5 5 954 1166 TO 1190 2325 TO 2345 5 5 955 1166 TO 1190 2603 TO 2615 5 5 **** FCR 1182 TO 1206. SEF 613 TO 773 ABOVE **** **** FCR 1190 TO 1210. SEE 373 TO 481 ABOVE **** **** FCR 1198 TC 1218. SEF 109 TO 157 ABOVE **** **** FCR 1206 TO 1242. SEF 853 TO 898 ABOVE **** **** FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** **** FCR 1218 TO 1270. SEE 49 TO 133 ABOVE **** **** FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** **** FCR 1218 TO 1274. SEF 49 TO 133 ABOVE **** **** FCR 1266 TC 1286. SEF 49 TO 133 ABOVE **** **** FCR 1266 TC 1286. SEE 481 TO 529 ABOVE **** **** FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** **** FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
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\$55												
#### FCR 1182 TO 1206. SEF 613 TO 773 AROVE **** #### FCR 1190 TO 1210. SEE 373 TO 481 AROVE **** #### FCR 1198 TC 1218. SEF 109 TO 157 ABOVE **** #### FCR 1202 TO 1242. SEF 853 TO 898 ABOVE **** #### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FOR 1210 TO 1270. SEE 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
*** FCR 1190 TO 1210. SEE 373 TO 481 AROVE **** *** FCR 1198 TC 1218. SEF 109 TO 157 ABOVE **** *** FCR 12C2 TO 1242. SEF 853 TO 898 ABOVE **** *** FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** *** FOR 1210 TO 1270. SEE 49 TO 133 ABOVE **** *** FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** *** FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** *** FCR 1266 TC 1286. SEF 49 TO 133 ABOVE **** *** FCR 1266 TC 1286. SEF 481 TO 529 ABOVE **** *** FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** *** FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****						CEE						
#### FCR 1158 TC 1218. SEF 109 TO 157 ABOVE **** #### FCR 12C2 TO 1242. SFF 853 TO 898 ABOVE **** #### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FOR 1210 TO 1270. SEE 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEF 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
*** FCR 12C2 TO 1242. SFF 853 TO 898 ABOVE **** *** FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** *** FOR 1210 TO 1270. SEF 49 TO 133 ABOVE **** *** FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** *** FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** *** FCR 1266 TC 1286. SEF 481 TO 529 ABOVE **** *** FCR 1270 TO 1294. SFF 952 TO 962 ABOVE **** *** FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
#### FCR 1206 TO 1266. SEF 922 TO 946 ABOVE **** #### FOR 1210 TO 1270. SEF 49 TO 133 ABOVE **** #### FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEF 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SFF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****		_							-			
#### FOR 1210 TO 1270. SEE 49 TO 133 ABOVE **** #### FOR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FOR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FOR 1266 TO 1286. SEE 481 TO 529 ABOVE **** #### FOR 1270 TO 1294. SEF 952 TO 962 ABOVE **** #### FOR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
#### FCR 1218 TO 1274. SEF 37 TO 121 ABOVE **** #### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SFF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
#### FCR 1242 TO 1282. SEF 49 TO 133 ABOVE **** #### FCR 1266 TC 1286. SEE 481 TO 529 ABOVE **** #### FCR 1270 TO 1294. SFF 952 TO 962 ABOVE **** #### FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
4*** FCR 1266 TC 1286. SEE 481 TO 529 ABOVE **** **** FCR 1270 TO 1294. SFF 952 TO 962 ABOVE **** 4*** FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
**** FCR 1270 TO 1294. SFF 952 TO 962 AROVE **** **** FCR 1274 TO 1302. SEE 898 TO 922 AROVE ****												
**** FCR 1274 TO 1302. SEE 898 TO 922 ABOVE ****												
556 1286 TO 1314 2541 TO 2553 5 5	55		1286		1314	_	2541	TO	2553			5

PATTERN	NCTES	RELATED TO	C NOTE	S	TEST	LFNGTH
**** FCR	1286 TO 131	4. SEE	1286 10	1314	ABOVE ***	*
**** FCR	1294 TO 131		613 TO	773	ABOVE ***	*
**** FCR	1302 TO 132	-	373 TO	481	ABOVE ***	*
4*** FCR	13C6 TC 132		49 TO	133		*
**** FOR	1314 TO 132		481 TO	529	AROVE ***	*
**** FCR	1318 TO 132	8. SEE	493 TO	541	ABOVE ***	*
**** FCF	1324 TO 133	SEE	505 TO	589	ABOVE ***	*
**** FCR	1326 TO 133		773 T 0	805	ABOVE ***	
**** FCR	1328 TO 134		37 TO	121	AROVE ***	
**** FCR	1330 TO 135		109 TO	157		
**** FOR	1334 TO 135		853 TO	858	AROVE ***	•
**** FCR	1338 TO 137		145 10	241	ABOVE ***	
957	1342 10 137		1454 TO	1472	5	5
558 650	1342 TO 137			1546 2565	5 5	5 5
959 960	1342 TC 137		1446 TO	1470	5	5
961	1350 TO 137			2059	<i>5</i>	5
962	1350 TO 137			2237	5	5
963	1350 TO 137			2275	5	5
964	1350 TO 137			2477	5	5
**** FCR	1350 TO 137		1350 TO	1378	ABOVE ***	
965	1354 TO 138		2194 TO	2235	5	5
**** FCR	1354 TO 138		1354 TO	1382		*
**** FOR	1370 TO 138		133 TO	217	ABOVE ***	*
**** FCR	1374 TO 138	8. SEE	869 TO	902	ABOVE ***	*
**** FCR	1378 TO 139	2. SEF	952 TO	962	ABOVE ***	*
**** FOR	1382 TO 139	SEE	898 10	922	ABOVE ***	*
4*** FOR	1386 TO 139		E53 T 0	898	ABOVE ***	•
**** F(F	1388 TO 142		922 TO	946	AROVE ***	-
44** FGR	1392 TO 143		49 TO		ABOVE ***	*
**** FCR	1394 TO 143		37 TO		AROVE ***	•
**** FCR	1358 TO 144		109 TO	157	ABOVE ***	-
**** FCR	1422 TO 145		853 TO	898	ABOVE ***	
4444 FOR 566	1430 TO 145		869 TO 1895 TO	90 <i>2</i> 1907	5	* 5
967	1438 TO 146		1943 TO	1955	5	5
96 B	1438 TO 146		2267 TO	2279	,	5
969	1438 TO 146			2327	5	5
970	1438 TC 146			2445	5	5
971	1438 TO 146		2781 TO	2791	5	5
572	1446 TO 147		1891 TO	1905	5	5
973	1446 TO 147		2027 TO	2063	5	5
974	1446 TC 147	10	2219 TO	2239	5	5
975	1446 TO 147	10		2277	5	5
576	1446 TO 147		2455 TO	2479	5	5
977	1446 TO 147		2639 TO	2653	5	5
4444 FCR	1446 TO 147		1446 TO		ABOVE ***	
978	1454 TO 147			1542	5	5
479	1454 TO 147		1887 10	1903		5
C80	1454 TO 147		2555 TO	2563	5 5	5 5
681	1454 TO 147	12	2613 TO	2625	7	う

RELATED TC

NCTES

PATTERN

TEST

NOTES

LENGTH

2635 TO 2651 5 582 1454 TO 1472 481 ABOVE **** **** FCR 1458 TO 1474. 373 TO SEE 157 ABOVE **** 109 TO **** FCR 1466 TO 1476, SEE 121 TO 165 ABOVE **** **** FGR 1470 TC 1480. SEE 133 TO 217 ABOVE **** **** FOR 1472 TO 1482. SEE **** FCF 1474 TO 1486. SEE 869 TO 902 ABOVE **** 552 TO SEE 962 ABOVE **** **** FCR 1476 TO 1494. **** FCR 1480 TC 1498. SEE 07 928 922 ABOVE **** SEE 121 TO 169 ABOVE **** **** FCR 1482 TO 1506. **** FCR 1458 TO 1526. SEE 133 TO 217 ABOVE **** 145 TO 241 ABOVE **** **** FCR 1506 TO 1534. SEE **** FCR 1510 TO 1542. SEF 1342 TO 1374 ABOVE **** SEE 1454 TO 1472 ABOVE **** **** FCR 1518 TO 1546. SFF 373 TO 481 ABOVE **** **** FCR 1526 TO 1554. SEE 49 10 133 ABOVE **** **** FCR 1534 TO 1578. 37 TO 121 ABOVE **** **** FCR 1542 TO 1580. SEE 109 TO 157 APOVE **** **** FCR 1546 TO 1582. SEF 121 TO 165 AROVE **** **** FCR 1554 TO 1586. SEE **** FCR 1580 TO 1614. SEE 133 TO 217 AROVE **** 902 ABOVE **** **** FCR 1582 TO 1626. SEE 869 TO 962 ABOVE **** **** FOR 1586 TO 1630. SEF 552 TO 858 TO 922 AROVE **** **** FOR 1590 TO 1638. SEF **** FCR 1614 TO 164C. SEF 853 TO 858 ABOVE **** 946 ABOVE **** **** FOR 1626 TO 1644. SEF 922 TO **** FOR 1630 TO 1646. SEE 109 TO 157 ABOVE **** **** FCR 1638 TC 1648. SFE 853 TO 898 ABOVE **** £65 TO 902 APOVE **** #### FCR 1640 TG 1650. SEE **** FOR 1644 TO 1662. 552 TO 962 AROVE **** SEF 898 TO 922 ABOVE **** **** FCR 1646 TO 1666. SFE SEE 853 TO 898 ABOVE **** **** FCR 1648 TO 1674. **** FCR 1650 TO 1682. 922 TO SEE 946 AROVE **** **** FCR 1662 TC 1686. 109 10 157 ABOVE **** SEF 853 TO **** FCR 1666 TC 1690. SEF 898 ABOVE **** **** FER 1674 TO 1698. SEE 01 P68 902 ABOVE **** 952 TO 962 ABOVE **** **** FCR 1682 TO 1706. SEE **** FCR 1686 TG 1708. SEF OT 828 922 ABOVE **** 121 TO **** FCR 1690 TO 1710. SEF 169 ABOVE **** **** FCR 1706 TO 1722. SEF 133 TO 217 ABOVE **** 946 ABOVE **** 522 TO **** FOR 17C8 TO 1726. SEF **** FCR 1710 TC 1728. 49 TG SEF 133 ABUVE *** 525 AROVE **** **** FOR 1718 TO 1732. SEE 481 TO 541 AROVE **** 493 TO **** FCF 1722 TO 1734. SEE **** FCR 1726 TO 1738. SEE 505 TO 589 AROVE **** **** FOR 1728 TO 1742. 858 TO 922 ABOVE **** SEE 853 TC 898 ABOVE **** **** FCR 1732 TO 1752. SEE 869 TO 902 ABOVE **** **** FCF 1734 TO 1754. SEE **** FCR 1738 TO 1756. SEE \$52 TO 962 ABOVE **** 0T 928 **** FCR 1742 TO 1758. SEF 922 ARUVE **** **** FCR 1752 TO 1762. SEF 853 TO 898 ABOVE **** SEF 922 TO 946 ABOVE **** **** FCR 1754 TC 1768. #### FCR 1762 TO 1774. SEF 613 TO 773 APOVF + ***

NOTES TEST LENGTH NCTES RELATEC TC PATTERN 705 TO 781 ABOVE **** **** FOR 1768 TO 1778. SEE **** FCR 1770 TO 1782, SEE 952 TO 962 ABOVE **** **** FCR 1772 TO 1784. SEE 898 TO 922 ABOVE **** 169 ABOVE **** SEF 121 TO **** FCR 1774 TC 1788. **** FGR 1788 TO 1814. SEE 133 TO 217 ABOVE **** 869 TO 902 AROVE **** **** FCF 1790 TO 1818. SEE SEE 952 TO 962 ABOVE **** **** FCR 1758 TO 1819. SEE 773 TO 805 ABOVE **** **** FCR 1810 TO 1820. **** FCR 1814 TO 1822. SEF 481 10 529 ABOVE **** **** FCR 1818 TC 1824. SEE 952 10 962 ABOVE **** **** FCF 1819 TO 1827. SEE 898 TO 922 ABOVE **** **** FCR 1820 TO 1828. 898 ABOVE **** SEE 853 TO **** FCR 1822 TO 183C. SEE 869 TO 902 ABOVE **** **** FCR 1824 TO 1846. SEF 493 TO 541 ABOVE **** **** FCR 1827 TO 1847. SEF 505 TO 585 ABOVE **** 773 TO 805 ABOVE **** **** FCR 1828 TO 1855. SEE **** FCF 1830 TC 1863. SEE 481 TO 529 ABOVE **** 493 TO 541 ABGVE **** **** FCR 1846 TO 1867. SEE **** FCR 1847 TO 1875. SEE 505 TO 589 ABOVE **** **** FCR 1855 TO 1881. SEF 898 TO 922 ABOVE **** **** FOR 1863 TO 1883. 121 TO 169 ABOVE **** SEE 133 TO 217 ABOVE **** **** FCR 1867 TO 1885. SEE 946 ABOVE **** **** FCR 1875 TO 1887. SEE 922 TO **** FCR 1881 TO 1891. 109 TO 157 ABOVE *** SEE **** FCR 1883 TO 1895. SEE 853 TO 858 ABOVE **** 145 TO 241 ABOVE **** **** FCR 1885 TO 1901. SEF **** FCR 1867 TO 1903. SEE 1342 TO 1374 ABOVE **** SEF 1350 TO 1378 ABOVE **** **** FCR 1891 TO 1905. 2024 TO 2055 5 5 983 1855 TO 1907 5 1855 TO 1907 2119 TO 2139 5 984 2257 TO 2273 5 985 1855 TO 15C7 5 2457 TO 2475 5 1895 TO 1907 986 946 ABOVE **** **** FCR 1901 TO 1915, SEE 922 TO **** FCR 1903 TC 1919. 109 TO 157 ABOVE **** SEF **** FOR 1905 TO 1921. 858 ABOVE **** SEE 853 TO 922 TO 946 ABOVE **** **** FCR 1907 TO 1925. SEE **** FCR 1915 TO 1927. SEF 109 TO 157 AROVE **** 165 ABOVE **** SEE 121 TO **** FCR 1919 TO 1929. **** FOR 1925 TO 1933. SEE 133 TO 217 ABOVE **** 902 ABOVE **** **** FCF 1927 TC 1935. E69 TO SEE 493 TO 541 ABOVE *** **** FCR 1529 TO 1939. SEE SEF 505 TO 589 ABOVE *** **** FCF 1931 TC 1943. SEE 1895 TO 1907 ABOVE **** **** FCR 1943 TO 1955. 869 TG 902 ABOVE **** **** FCR 1949 TO 1967. SEF 962 ABOVE **** **** FCR 1951 TO 1973. SFF 952 TO 922 ABOVE **** **** FCF 1953 TG 1975. SEE 898 TO **** FCR 1955 TO 1979. SEF 653 TO 898 AROVE **** 865 TO 902 ABOVE **** **** FCR 1967 TO 1987. SFE **** FCR 1973 TG 1995. 493 TO 541 ABOVE **** SEF 505 TO 589 AROVE **** **** FCP 1975 TC 2001. SFF 805 ABOVE ****

SEE

773 TC

**** FOR 1979 TO 2003.

RELATED TC

NOTES

TEST LENGTH

PATTERN

NCTES

**** FCR 1987 TO 2004. 481 TO 529 ABOVE **** SEE **** FCR 1995 TO 2005. SEF 493 TO 541 ABOVE **** **** FCF 2003 TG 2009. SEF 505 10 589 ABOVE **** **** FCR 2C04 TO 2011. 922 ABOVE *** SEE OT 888 **** FCR 2005 TO 2013. 853 TO 898 ABOVE *** SEF **** FCR 2007 TO 2015. SEE 869 TO 902 ABOVE **** 962 AROVE **** **** FCR 2009 TO 2016. SEF 952 TO **** FCR 2011 TO 2017. SEF 773 TO 805 ABOVE **** **** FOR 2015 TO 2020. 105 TO SEE 157 ABOVE **** **** FCR 2016 TO 2021. SEF 853 TO 898 ABOVE *** **** FCR 2017 TO 2023. SFF 522 TO 946 ABOVE **** **** FOR 2019 TO 2024. SEF 49 TO 133 ABOVE **** **** FCR 2C20 TO 2C25. SEE 37 TO 121 AROVE **** **** FCR 2021 TO 2027. SEF 49 TO 133 ABOVE **** 481 TO **** FOR 2023 TO 2051. 529 ABOVF **** SEE #### FCR 2024 TO 2055. SEF 1438 TO 1466 AROVE **** **** FCF 2G25 TO 2059. SFF 1446 TO 1470 ABOVE **** **** FCR 2027 TO 2063. SEF 1350 TO 1378 ABOVE **** SEE 1354 TO 1382 AROVE **** **** FCR 2051 TO 2071. 217 ABOVE **** **** FCR 2055 TO 2075. 133 TO SFE **** FCR 2059 TO 2081. SEE **922 TO** 946 ABOVE *** **** FOR 2063 TO 2083. SEF 109 TO 157 ABOVE **** **** FCR 2C71 TO 2089. 898 ABOVE *** SEF 853 TO **** FOR 2075 TO 2093. 922 TO SEE 946 ABOVE *** **** FCR 2055 TO 2109. SEF 505 TO 589 ABOVE **** **** FOR 2099 TO 2111. 898 TO 922 ABOVE **** SEE **** FCR 2103 TC 2113. E53 TO SEF 898 AROVE **** **** FOR 2105 TO 2117. SEE 922 TO 946 ABOVE **** **** FCR 2109 TO 2119. 109 TO 157 ABOVE **** SEE **** FCR 2111 TO 2121. SEE 121 10 169 ABOVE **** **** FCR 2113 TO 2123. SEF 133 TO 217 ABOVE **** **** FCR 2117 TO 2135. 902 ABOVE **** 869 TO SEE **** FCR 2119 TO 2139. SEE 1438 TO 1466 ABOVE **** **** FCR 2123 TO 2145. SEE 1166 TO 1190 ABOVE **** **** FCF 2139 TO 2151. SEE 1354 TO 1382 ABOVE **** **** FCR 2143 TO 2155. 217 AROVE **** 133 TO SEE **** FCR 2145 TO 2157. 669 TO 902 ABOVE **** SEE **** FCR 2147 TC 2159. \$52 TO 962 ABOVE **** SEE

SEARCH FCR PATTERNS CF 6 NCTES IN LENGTH -TCNAL RETROGRACE WAS BEGUN AT 3065 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOTES	TEST	LENGTH
987	1 10 121	1134 TO 1166	5	6
98>	37 TO 133	409 TO 505 789 TO 853	5	6
5 89 550	37 TO 133 37 TO 133	\$30 TO 952	5 5	6 6
990 991	37 TO 133	570 TO 1026	5	6
552	37 10 133	1002 10 1042	5	6
993	37 TO 133	1022 TO 1070	5	6
554	37 TO 133	11C6 TO 1134	5	6
555	37 TC 133	1118 TO 1142	5	6
996	37 TC 133	113C TO 1158	5	6
997	37 TO 133	121C TO 1274	5	6
5 S B	37 10 133	1392 TO 1438	5	6
999	37 TO 133	1534 TO 1580	5	6
1000	37 10 133	2019 TO 2025	5	6
1001	37 TO 133	2391 TO 2415	5	6
100 <i>2</i> 1003	27 TO 133 37 TO 133	2503 TO 2517 2513 TO 2527	5 5	6 6
1004	37 TO 133	2516 TO 2533	5	6
1005	37 TO 133	2561 TO 2591	5	6
1006	37 TO 133	2565 TO 2603	5	6
1007	37 TO 133	2657 TO 2679	5	6
1008	37 TC 133	2797 TO 2806	5	6
1669	49 TO 145	421 TO 517	5	6
1010	49 TO 145	781 TO 837	5	6
1011	49 TO 145	578 TO 1034	5	6
1C12	49 TO 145	1C14 TO 1050	5	6
1013	49 10 145	1104 TO 1130	5	6
1014	49 10 145	1110 TO 1140	5	6
1015	49 TO 145	1126 TO 1146	5	6
1016	49 TO 145 49 TO 145	1218 TO 1282 2020 TO 2027	5 5	6 6
1C17 1018	49 10 145	2399 TO 2419	5	6
1010	49 10 145	2509 TO 2519	5	6
1020	49 TO 145	2515 TO 2531	5	6
1021	49 TO 145	2563 TO 2599	5	6
1022	49 TO 145	2566 TD 2607	5	6
1023	49 TO 145	2659 TO 2683	5	6
1024	49 TC 145	2799 TO 2807	5	6
1025	73 10 157	773 TO 821	5	6
1026	73 10 157	954 TO 970	5	6
1027	73 10 157	1102 TO 1126	5	6
1028	73 TO 157	1326 TO 1342	5	6
1C29	73 10 157	2011 TO 2019	5 5	6
1030	73 TC 157	2363 10 2391	つ	6

1031 73 TO 157 2759 TO 2769 5 6 1022 109 TO 169 765 TO 805 5 6 1033 109 TO 169 109 109 1118 5 6 1034 109 TO 169 1324 TO 1338 5 6 1035 109 TO 169 1575 TO 2003 5 6 1036 109 TO 169 2361 TO 2375 5 6 1037 109 TO 169 2361 TO 2375 5 6 1038 109 TO 169 2547 TO 2559 5 6 1038 109 TO 169 2711 TO 2733 5 6 1039 121 TC 217 493 TO 589 5 6 1040 121 TO 217 733 TO 797 5 6 1041 121 TO 217 733 TO 797 5 6 1042 121 TO 217 1086 TO 1110 5 6 1043 121 TO 217 1722 TO 1738 5 6 1044 121 TO 217 1722 TO 1738 5 6 1044 121 TO 217 1722 TO 1738 5 6 1045 121 TO 217 1929 TO 1943 5 6 1046 121 TO 217 2359 TO 2373 5 6 1047 121 TO 217 2359 TO 2373 5 6 1048 121 TO 217 2489 TO 2503 5 6 1049 123 TO 241 709 TO 789 5 6	NCTES RELATED	NOTES TEST LE	NGTH
1032 109 TO 169 765 TO 805 5 6 1033 109 TO 169 1094 TO 1118 5 6 1034 109 TO 169 1324 TO 1338 5 6 1035 109 TO 169 1575 TO 2003 5 6 1036 109 TO 169 2361 TO 2375 5 6 1037 109 TO 169 2547 TO 2559 5 6 1038 109 TO 169 2547 TO 2733 5 6 1038 109 TO 169 2711 TO 2733 5 6 1039 121 TO 217 493 TO 589 5 6 1040 121 TO 217 733 TO 797 5 6 1041 121 TO 217 670 TO 914 5 6 1042 121 TO 217 1086 TO 1110 5 6 1043 121 TO 217 1722 TO 1738 5 6 1044 121 TO 217 1929 TO 1943 5 6 1045 121 TO 217 1929 TO 1943 5 6 1046 121 TO 217 2359 TO 2373 5 6 1047 121 TO 217 2359 TO 2373 5 6 1048 121 TO 217 2489 TO 2503 5 6 1048 121 TO 217 2785 TO 2797 5 6	72 10 157	75G TO 276G 5	6
1033 1C9 TO 169 1C94 TO 1118 5 6 1034 1C9 TO 169 1324 TO 1338 5 6 1035 1C9 TO 169 1575 TO 2003 5 6 1036 1C9 TO 169 2361 TO 2375 5 6 1C37 1C9 TO 169 2547 TO 2559 5 6 1C38 1C9 TO 169 2711 TO 2733 5 6 1C38 1C9 TO 169 2711 TO 2733 5 6 1C4++ FCR 109 TO 169. SEF 109 TO 169 ABOVE **** 1C39 121 TC 217 493 TO 589 5 6 1C40 121 TO 217 733 TO 797 5 6 1C41 121 TO 217 670 TO 914 5 6 1C42 121 TO 217 1C86 TO 1110 5 6 1043 121 TO 217 1722 TO 1738 5 6 1044 121 TO 217 1929 TO 1943 5 6 1C45 121 TO 217 1929 TO 1943 5 6 1C46 121 TO 217 1973 TO 2001 5 6 1C47 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6			
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1035 1C9 TO 169 1975 TO 2003 5 6 1C36 1C9 TO 169 2361 TO 2375 5 6 1C37 1C9 TO 169 2547 TO 2559 5 6 1C38 1C9 TO 169 2711 TO 2733 5 6 **** FCR 109 TO 169. SEF 109 TO 169 ABOVE **** 1C39 121 TC 217 493 TO 589 5 6 1C40 121 TO 217 733 TO 797 5 6 1C41 121 TO 217 670 TO 914 5 6 1C42 121 TO 217 1C86 TO 1110 5 6 1C42 121 TO 217 1722 TO 1738 5 6 1C43 121 TO 217 1929 TO 1943 5 6 1C45 121 TO 217 1929 TO 1943 5 6 1C46 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2359 TO 2373 5 6 1C48 121 TO 217 2489 TO 2503 5 6			
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1C37 1C9 TO 169 2547 TO 2559 5 6 1C38 1C9 TO 169 2711 TO 2733 5 6 ***** FCR 109 TO 169. SEF 109 TO 169 ABOVE ***** 1C39 121 TC 217 493 TO 589 5 6 1C40 121 TO 217 733 TO 797 5 6 1C41 121 TO 217 870 TO 914 5 6 1C42 121 TO 217 1086 TO 1110 5 6 1C43 121 TO 217 1722 TO 1738 5 6 1C44 121 TO 217 1929 TO 1943 5 6 1C45 121 TO 217 1973 TO 2001 5 6 1C46 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6			6
1038 109 TO 169 2711 TO 2733 5 6 **** FCR 109 TO 169. SEF 109 TO 169 ABOVE **** 1039 121 TC 217 493 TO 589 5 6 1040 121 TO 217 733 TO 797 5 6 1041 121 TO 217 670 TO 914 5 6 1042 121 TO 217 1086 TO 1110 5 6 1043 121 TO 217 1722 TO 1738 5 6 1044 121 TO 217 1929 TO 1943 5 6 1045 121 TO 217 1973 TO 2001 5 6 1046 121 TO 217 2359 TO 2373 5 6 1047 121 TO 217 2489 TO 2503 5 6 1048 121 TO 217 2785 TO 2797 5 6			6
1C39 121 TC 217 493 TO 589 5 6 1C40 121 TO 217 733 TO 797 5 6 1C41 121 TO 217 £70 TO 914 5 6 1C42 121 TO 217 1C86 TO 1110 5 6 1C43 121 TO 217 1722 TO 1738 5 6 1C44 121 TO 217 1929 TO 1943 5 6 1C45 121 TO 217 1973 TO 2001 5 6 1C46 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6		711 10 2733 5	6
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1C41 121 TO 217 £70 TO 914 5 6 1C42 121 TO 217 1C86 TO 1110 5 6 1O43 121 TO 217 1722 TO 1738 5 6 1O44 121 TO 217 1929 TO 1943 5 6 1C45 121 TO 217 1973 TO 2001 5 6 1O46 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6			
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1046 121 TO 217 2359 TO 2373 5 6 1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6		929 TO 1943 5	
1C47 121 TO 217 2489 TO 2503 5 6 1C48 121 TO 217 2785 TO 2797 5 6			
1C48 121 TO 217 2785 TO 2797 5 6			
1049 123 10 241 /09 10 /89 2 0		185 10 2797 5	
1050 241 TO 481 2591 TO 2613 5 6			
1051 373 TO 493 2533 TO 2547 5 6 1052 373 TO 493 2567 TO 2611 5 6			
			0
#### FOR 4C9 TO 505. SEE 49 TO 145 ABOVE **** #### FOR 421 TO 517. SEE 37 TO 133 ABOVE ****			
1053 445 TO 529 922 TO 948 5 6			6
1054 445 TO 529 966 TO 1022 5 6			
1055 445 TO 529 1206 TO 1270 5 6			
1056 445 TO 529 1388 TO 1430 5 6			
1057 445 TO 529 1708 TO 1728 5 6			
1C58 445 TO 529 2C17 TO 2024 5 6	445 TO 529	C17 TO 2024 5	6
1(59 445 TO 529 2171 TO 2185 5 6		171 TO 2185 5	6
1C6C 445 TO 529 2247 TO 2263 5 6		247 TO 2263 5	6
1061 445 TO 529 2287 TO 2301 5 6	445 TO 529		6
1C62 445 TO 529 2349 TO 2363 5 6	445 TO 529		6
1C63 445 TO 529 2375 TO 2411 5 6			
1064 445 TO 529 2435 TO 2448 5 6			
1065 445 TO 529 2499 TO 2516 5 6			
1066 445 TO 529 2531 TO 2543 5 6			
1C67 445 TO 529 2653 TO 2663 5 6			
1C68 445 TO 529 2795 TO 2805 5 6			
1CE9 4E1 TO 541 914 TO 946 5 6			
1C7C 481 TO 541 1706 TO 1726 5 6			
1(73 481 TO 541 2235 TO 2259 5 6 1(74 481 TO 541 2347 TO 2361 5 6			
1075 481 TO 541 2651 TO 2662 5 6			
#### FCR 481 TO 541. SEF 481 TO 541 ABOVE ****			-
1C76 493 TO 589 147C TO 1482 5 6			6
1077 493 TO 589 1863 TO 1885 5 6			

PATTERN	NCTES	RELATED 1	C NOTES	TEST LE	NGTH
1078	493 10	589	2111 TO 212	23 5	6
1075		589	2155 TO 216		6
1080		589	2185 TO 219		6
1081		589	2345 TO 235	5	6
1082		789	1498 10 153	5	6
44** FCR	709 TO	789. SEE	709 TO 78	19 ABOVE ****	
**** FCR	733 TO	797. SEE	493 TC 58	9 ABOVF ****	
1083		805	1466 TO 148		6
1084		805	1546 TO 158		6
1085		8C5	1915 TO 192		6
1086		805	2109 TO 212		6
1 (8 7		805	2343 TO 235		6
1688		821	934 TO 95		6
1689		821	956 TO 97		6 6
1090 1091		821 821	1328 TO 135		6
1092		821	1394 TO 144		6
1683		821	1542 TO 158		6
1054		821	2013 TO 202		6
1055		821	2365 TO 239		6
1096		821	2517 TO 253		6
1057		821	2761 TO 277		6
**** FOR		821. SEE			
**** FCR		837. SEE			
4+++ FCR	789 TO	£53. SE	49 TO 14	5 ABOVE ****	
4444 FCR	757 TO	869. SEE	37 TO 13	3 ABOVE ****	
4*** FCR	8C5 TO	870. SFE		5 ABOVE ****	
444* FCR		894. SE			
**** FCF		902. SEF			
**** FCR		910. SEE			
**** FCR		914. SEE		9 ABOVE ****	
168		922	148C TO 150		6
1059		922	1686 TO 171 1772 TO 178		6
1100		922 922	1855 TO 188		6 6
11C1 1102		922 922	2151 TO 216		6
1102		922	2183 TO 219		6
1104		922	2693 TO 270		6
1105		930	1726 TO 174		6
1106		930	1847 TO 188		6
1167		930	2003 TO 201		6
1108	858 TO	930	2095 TO 211	1 5	6
1109	ES8 TO	930	2493 TO 250	5	6
1110		930	2789 TO 279		6
**** FCR		930 • SEF			
1111		934	1320 TG 133		6
1112		934	2001 TO 200		6
1113		934	2301 TO 231		6
1114		934	2705 TO 272		6
1115		942	1318 TO 133		6
1116	510 TC	942	1995 TO 200	7 5	6

PATTERN	NCTE	S RELA	TED TO		NOTE	S	TEST	LENGTH
1117	510 10	942		2191	TO	2227	5	6
1118	\$10 70	942		2297	TO	2307	5	6
1119	\$10 10	942		2707	TO	2727	5	6
**** FCR	910 TC	942.	SEF	510	TO	942	ABOVE ***	**
1120	914 TO	946		1314	TO	1328	5	6
1121	514 TO	946		1718	TO	1734	5	6
1122	514 TO	946		1587	TO	2005	5	6
1123	514 TO	946		2293	TO	2305	5	6
1124	514 TO	946		2355	TO	2367	5	6
1125	914 TC	946		2487	TO	2499	5	6
1126	922 TO	548		1242	TO	1286	5	6
1127	922 TO	948		1306	TO	1326	5	6
1128	922 10	948		1710	TO	1732	5	6
1129	522 TO	548		2021	TO	2051	5	6
1130	522 TO	948		2175	TO	2187	5	6
1131	522 TC	548		2253	TO	2267	5	6
1132	922 TO	948		2291	TO	2303	5	6
1123	522 10	948		2351	TO	2365	5	6
1124	522 TO	548		2403	TO	2423	5	6
1135	922 TO	54 8		2439	TO	2449	5	6
1136	922 TO	948		2453	TO	2467	5	6
1137	522 TC	948		2661	TO	2687	5	6
**** FCR	922 TO	948 •	SEF	922	TO	948	ABOVE ***	**
**** FCR	930 TC	952•	SEF	49	10	145	ABOVE ***	**
**** FCR	534 10	954 •	SEE	73	TO	157	APOVE ***	· =
**** FCR	942 TO	956.	SEF	837	TO	898		
**** FCR	946 TO	558 •	SEF	853	TO	902	ABOVE ***	_
1138	548 TG	962		1074	10	1104	5	6
1139	948 TO	962		1422	TO	1458	5	6
114C	948 TO	962		1638		165C	5	6
1141	548 TO	962				1698	5	6
1142	548 TO	962		1732		1754	5	6
1143	548 TC	562		1820		1830	5	6
1144	948 10	962		1955	TO	1987	5	6
1145	948 TO	962		2005	10	2015	5	6
1146	\$48 TO	962		2733		2755	5	6
1147	552 TO	966		1034	TO	1082	5	6
1148	952 10	966		1070	10	1102	5 5	6
1149	552 TO	966		1198	TO	1242		6
115C	552 TO	966		1330	TO TO	1354 1454	5 5	6
1151	552 TO 552 TO	966 966		1398 1630		1648	5	6 6
1152				1662	TO	1690	5	6
1153	552 TO 552 TG	966 966		1881	TO	1895	5	6
1154 1155	952 TO	966		1903	TO	1921	5	6
1156	\$52 TO	966		2C15	TO	2021	5	6
1157	952 TO	966		2063	10	2089	5	6
1157	952 TO	966		2367	TO	2403	5	6
1159	952 TO	566		2519	TO	2537	5	6
1160	552 TO	966		2763	TO	2775	Ś	6
**** FCF	952 TO	966.	SEE	952	TO	966		

RELATED TO

NOTES

TEST

LENGTH

PATTERN

NCTES

954 TO 970. SEE 773 TO 821 ABOVE **** **** F(F 73 TO 157 ABOVE **** **** FCR 956 TO 978. SEF 837 TO 898 ABOVE *** **** FCR 558 TO 1002. SEE 1266 TO 1294 5 1161 562 10 1014 6 1814 TO 1824 5 562 TC 1014 1162 6 5 562 TO 1014 2177 TO 2189 6 1163 562 TO 1014 2409 TO 2429 5 6 1164 2441 TO 2452 5 1165 562 10 1014 6 5 962 TO 1014 2662 TO 2693 1166 6 562 TO 1014 2683 TO 2699 5 6 1167 2719 TO 2739 5 1168 562 10 1014 6 962 TO 1014 2751 TO 2765 5 1169 6 **** FCR 966 TO 1022. SEE 922 TO 948 ABOVE **** 49 TO **** FCR 570 TO 1026. SEE 145 ABOVE **** 978 TO 1034. 37 TG 133 ABOVE **** **** FCR SEE **** FCF 1002 TO 1042. SEE 49 TO 145 ABOVE **** **** FOR 1014 TO 1050. SEE 37 TO 133 ABOVE **** 145 ABOVE **** **** FCR 1022 TO 1070. SEE 49 TO SEE 73 TO **** FGR 1026 10 1074. 157 ABOVE **** 837 TO 898 ABCVE **** **** FCR 1034 TO 1082. SEE 962 TO 1014 ABOVE **** **** FCR 1042 TO 1086. SFF 1050 TO 1094 1810 TO 1822 117C 5 6 5 1171 1C50 TO 1C94 1979 TO 2004 6 1172 1C5C TO 1094 2483 TO 2497 5 6 5 1173 1050 TO 1094 2679 TO 2697 6 1050 TO 1094 2715 TO 2735 1174 5 6 1050 TO 1094 2743 TO 2763 1175 5 6 SEF **** FOR 1070 TO 1102. 837 TO 858 ABDVE **** **** FCR 1074 TO 1104. SEE 853 TO 902 ABOVE **** **** FCF 1082 TO 1106. SEE £69 TO 910 ABOVE **** **** FOR 1086 TO 1110. 493 TO 589 ABOVE **** SEE **** FCR 1C94 TO 1118. 765 TO 805 ABOVE **** SEF **** FOR 1102 TG 1126. SEE 773 TO 821 ABOVE **** **** FCR 1104 TO 1130. SEE 37 TO 133 ABOVE **** **** FOR 11C6 TO 1134. SEE 49 TO 145 ABOVE **** **** FCR 1110 TO 1140. SEF 37 TO 133 ABOVE **** **** FCR 1118 TO 1142. 49 TO 145 ABOVE **** SEE **** FCR 1126 TO 1146. SEE 37 TO 133 ABOVE **** 145 ABOVE **** **** FCR 1130 TO 1158. SEE 49 TO 1182 TO 1210 5 2535 TO 2549 1176 6 1190 TO 1218 2549 TO 2561 1177 6 **** FCR 1198 TO 1242. SEE 837 TO 898 ABOVE **** **** FOR 1202 TO 1266. 962 TO 1014 ABOVE **** SEE **** FCR 1206 TO 1270. SEE 922 TO 948 ABOVE **** **** FOR 1210 TO 1274. SEE 49 TO 145 ABOVE **** **** FCR 1218 TO 1282. 37 TO 133 ABOVE **** SEE **** FCR 1242 TG 1286. SEE 445 TO 529 ABOVE *** 5 1178 1266 TO 1294 1386 TO 1422 6 1179 1266 TO 1294 1614 TO 1644 5 6 1266 TC 1294 1180 1648 TO 1682 6 1266 TO 1294 1752 TO 1768 5 6 1181

PATTERN	NCTES	RELATED TO	ב ו	OTE	S	TEST	LENGTH
1182	1266 TC 1294	•	1905	TO	1925	5	6
1183	1266 10 1294		2016	TO	2023	5	6
1184	1266 TO 1294		2C71	TO	2093	5	6
1185	1266 TO 1294	•	2103	TO	2117	5	6
1186	1266 TO 1294	•	2169	TO	2183	5	6
1187	1266 TO 1294	•	2279	TO	2299	5	6
1188	1266 TO 1294	•	2373	TO	2409	5	6
1189	1266 TO 1294	,	2497	TO	2515	5	6
1190	1266 10 1294	•	2527		2541	5	6
1191	1266 TO 1294	•	2765		2781	5	6
1192	1266 TO 1294	•	2793	TO	2803	5	6
1153	1270 TO 1302	•	1382	TO	1398	5	6
1154	1270 TO 1302		1590	TO	1640	5	6
1195	1270 TO 1302		1646	TO	1674	5	6
1156	1270 TO 1302		1728	TO	1752	5	6
1157	1270 TO 1302		1742	TO	1762	5	6
1158	1270 TO 1302		1819		1828	5	6
1199	1270 TO 1302		1953	TO	1979	5	6
1200	1270 TO 1302		2004	10	2013	5	6
1201	1270 TO 1302		2099	TO	2113	5	6
1202	1270 TO 1302		2167		2181	5	6
1203	1270 TO 1302		2277		2297	5	6
1704	1270 TO 1302		2495	TO TO	2513 2645	5 5	6 6
1205	1270 10 1302		2629				
1206	1270 TO 1302		2729	TO	2751	5	6
1207	1270 TO 1302		2791 2537	TO	2801 2553	5 5	6 6
12C8 44** FOR	1266 TO 1318		1182	TO	1210	ABOVE ***	*
**** FCR	13C2 TO 1324		373	TO	493	ABOVE ***	*
**** FCR	1306 TO 1326		445	10	529		*
**** FCR	1314 TO 1328		481	TO	541	ABOVE ***	*
1209	1318 TO 1330		1494		1526	5	6
1210	1318 TO 1330		1578	TO	1614	5	6
1211	1318 TO 1330		1698	TO	1722	5	6
1212	1318 TO 1330			TO	1814	5	6
1213	1318 TO 1330	}		TO	1933	5	6
1214	1218 TO 1330		2237	TO	2257	5	6
1215	1318 TO 1330	•	2647	TO	2661	5	6
1216	1318 TO 1330		2699	TO	2711	5	6
1217	1320 TO 1334	•	1482	TO	1510	5	6
1718	1320 TO 1334	•	1554	TO	1590	5	6
1719	1320 TO 1334	•	169C	TO	1718	5	6
1220	1320 TO 1334	•	1774	TO	1790	5	6
1221	1320 10 1334				1931	5	6
1222	1320 TO 1334		2695		2707	5	6
**** FCR	1320 TO 1334		1320	TO	1334	ABOVE ***	*
**** FGR	1324 TO 1338		765	TO	805	ABOVE ***	
**** FCR	1326 TO 1342		773	TO	821	ABOVE ***	
**** FOR	1328 TC 1350		73	10	157	ABOVE ***	
**** FCR	1330 TC 1354		837	10		ABOVE ***	
1223	1334 TO 1370)	1768	TO	1782	5	6

PATTERN'	NCTES	RELATED T	C NOTE	S	TEST	LFNGTH
1224	1334 TO 137	n	2625 TO	2635	5	6
1225	1342 TO 137			1472	5	6
_	1342 TO 137				ABOVE ***	
1226	1350 70 138	-		2237	5	6
1227	1370 70 138			1939	5	6
1228	1370 TO 138			1995	5	6
1229	1370 TO 138		2189 TO	2219	5	6
1230	1370 TO 138	8	2705 TO	2719	5	6
1231	1370 TO 138	8	2783 TO	2795	5	6
**** FCR	1374 TO 139	2. SEE	948 TO	962	ABOVE ***	*
**** FCR	1378 TO 139			1302	444 3A08V	*
1232	1382 TO 139	8		1498	5	6
1233	1382 TO 139			1638	5	6
1234	1382 TO 139			1666	5	6
1235	1382 TO 139			1708	5	6
1236	1382 10 139			1758	5	6
1237	1382 TO 139			1784	5	6
1238	1382 TO 139			1827	5	6
1239	1382 TO 139			1975	5	6
1240	1382 TO 139			2165	5	6
1241	1382 TO 139			2177	5 5	6
1242	1382 TC 139			2191	5 5	6
1243	1382 TC 139 1382 TO 139			2293 263 9	5	6 6
1244 1245	1382 TO 139			2701	5	6
1246	1382 TO 139			2743	5	6
**** FCR	1386 TO 142			1014	ABOVE ***	
**** FCR	1388 TO 143		922 TO	948	AROVE ***	· k
4*** FCR	1392 TO 143		49 TO	145	ABOVE ***	•
**** FCR	1394 TO 144		73 TO	157		*
**** FCF	1398 TO 145		837 TO		ABOVE ***	*
_	1422 TO 145				ABOVE ***	
1247	1430 TO 146			1967	5	6
1248	1430 TO 146	6	2267 TO	228 7	5	6
1749	1430 TC 146	6	2781 TO	2793	5	6
1250	1438 TO 147	C	1891 TO	1907	5	6
1251	1438 TO 147		2263 TO	2279	5	6
**** FCR					ABOVE ***	
1252	1446 TO 147		1887 TO		5	6
1253	1446 TO 147			2653	5	6
1254	1454 TO 147		_	2563	5	6
**** FCR					ABOVE ***	
	1458 TC 147			1218		
	1466 TC 148		109 10	169		
	1470 TO 148		121 TO	217		
**** FCR	1472 TO 148 1474 TC 149		1370 TO 948 TO	1388 962		
	1474 TO 149				AROVE ***	
	1480 TO 150		898 TO		ABOVE ***	
	1482 TO 151		902 TO		AROVE ***	
**** FCF	1494 TO 152		910 10	942		
		-, -,	720 10			

RELATED TO

NCTES

PATTERN

1258

TEST

LENGTH

6

NOTES

133 TO 241 ABOVE *** **** FCR 1498 TO 1534. SEE 1510 TO 1546 2555 TO 2565 6 **** FCR 1518 TO 1554. 1454 TO 1474 ABOVE **** SEE **** FCR 1526 TO 1578. SEE 373 TO 493 ABOVE **** **** FCF 1534 TO 158C. 49 TO 145 ABOVE *** SEE **** FOR 1542 TO 1582. SEE 73 TO 157 ABOVE **** 169 ABOVE *** 109 TO **** FCR 1546 TO 1586. SEE **** FCR 1554 TO 1590. 902 TO 934 ABOVE **** SEF 910 TO 942 ABOVE **** **** FGR 1578 TO 1614. SEE SEE 1370 TO 1388 ABOVE **** **** FOR 1580 TO 1626. 948 TO 962 ABOVE **** **** FCR 1582 TO 1630. SEE SEE 1270 TO 1302 ABOVE **** **** FCR 1586 TO 1638. **** FCR 1590 TO 1640. SEE 1382 TO 1398 ABOVE **** **** FCR 1614 TO 1644. SEE 962 TO 1014 ABOVE *** SEE 1050 TO 1094 ABOVE **** **** FOR 1626 TO 1646. 837 TO 898 APOVE *** **** FOR 1630 TO 1648. SEE **** FOF 1638 TO 1650. SEE 853 TO 902 ABOVE **** 948 TO 962 ABOVE **** FCR 1640 TO 1662. SEE SEE 1270 TO 1302 ABOVE **** **** FCR 1644 TO 1666. **** FCR 1646 TO 1674. SEE 1382 TO 1398 ABOVE **** 962 TO 1014 ABOVE **** **** FCR 1648 TO 1682, SEE SEE 1050 TO 1094 APOVE **** **** FCR 1650 TC 1686. 837 TO 898 ABOVE **** **** FCR 1662 TO 1690. SEE 902 ABOVE *** **** FCR 1666 TO 1698. SEE 853 TO 948 TO 962 ABOVE **** **** FCR 1674 TO 1706. SEF **** FOR 1682 TO 1708. SEE 1270 TO 1302 ABOVE **** 930 ABOVE *** **** FOR 1686 TO 1710. SEE 698 TO **** FCR 1690 TO 1718. SEE 902 TC 934 APOVE **** 942 ABOVE *** **** FCR 1698 TO 1722. SEE 510 TO **** FCR 17G6 TO 1726. 914 TO 946 ABOVE **** SEE 922 TO **** FCR 1708 TO 1728. SEF 948 ABOVE *** **** FCR 1710 TO 1732. SEE 445 TO 529 ABOVE **** **** FOR 1718 TO 1734. SEE 481 TO 541 ABOVE **** **** FCR 1722 TO 1738. SEE 493 TO 589 ABOVE **** **** FCR 1726 TO 1742. 894 TO 922 ABOVF **** SEF SEF 1382 TO 1398 ABOVE **** **** FCR 1728 TO 1752. **** FCR 1732 TO 1754. SEE 853 10 902 ABOVE *** **** FCR 1734 TG 1756. SEE 948 TO 962 ABOVE **** SEE 127C TO 1302 AROVE **** **** FCR 1738 TO 1758. SEE 1382 TO 1398 ABOVE **** **** FCR 1742 TO 1762. 962 TO 1014 ABOVE **** **** FCR 1752 TO 1768. SEE 1768 70 1782 1883 TO 1901 5 6 1256 2631 TO 2647 1257 1768 TO 1782 5 6 SEE 1270 TO 1302 ABOVE **** **** FCR 1770 TC 1784. 930 AROVE **** **** FCR 1772 TO 1788, SEE 898 TO 502 TO 934 ABOVE **** **** FCR 1774 TO 1790. SEE 942 ABOVE **** **** FCR 1784 TO 1814. SEE 910 TO **** FCR 1788 TO 1818. SEE 1370 TO 1388 ABOVE **** 948 TO 962 ABOVE **** **** FGR 1790 TO 1819. SEE 552 TO 966 ABOVE **** **** FCR 1798 TO 1820. SEE 1875 TO 1891 5 1810 TO 1822

PATTERN	NCTES	RELATED T	C NOTI	ES	TEST	LFNGTH
1259	1810 TO 1822	2	1901 T O	1919	5	6
1260	1610 TO 1822		1907 TO	1927	5	6
1261	1810 TO 1822		2059 TO	2083	5	6
1762	1810 TO 1822		2105 TO	2119	5	6
**** FOR	1814 TO 1824		1266 TO	1294	ABOVE ***	*
**** FCR	1818 TO 1827		1270 TO	1302	ABOVE ***	*
**** FCR	1819 TO 1828		1382 TO	1398	ABOVE ***	*
**** FCR	1820 TO 1830		853 TO	902	ABOVE ***	*
**** FCR	1822 TO 1846		869 TO	910	ABOVE ***	*
**** FCR	1824 TO 1847		493 TO	589	ABOVE ***	*
**** FCR	1827 TO 1855		765 TC	805	ABOVE ***	*
**** FCR	1828 TO 1863		1810 TO	1822	ABOVE ***	*
**** FCR	1830 TO 1867		481 TO	541	ABOVE ***	*
**** FCR	1846 TO 1875		493 TO	589	ABOVE ***	*
**** F[R	1847 TO 1881		894 TO	922	ABOVE ***	*
**** FGR	1855 TO 1883		858 TO	930	ABOVE ***	*
**** FCR	1863 TC 1885		121 TO	217	ABOVE ***	*
**** FCR	1867 TO 1887		914 TO	946	ABOVE ***	*
**** FCR	1875 TO 1891		1050 TO	1094	ABOVE ***	*
**** FCR	1881 TG 1895		837 TO	898	ABOVE ***	*
**** FCR	1883 TO 1901		1334 TO	1370	ABOVE ***	*
**** FCR	1887 TO 1905		1342 TO	1378	ABOVE ***	
1263	1891 TO 1907		2024 TO	2055	5	6
1264	1891 10 1907		2257 TO	2275	5	6
1265	1891 TO 1907		2457 TO	2477	5	6
1766	1895 TO 1919		2023 TO	2055	5	6
1767	1855 TO 1915		2255 TO	2273	5	6
1268	1895 10 1915		2455 TO	2475	5	6
**** FCR	1895 TO 1919		1895 TO	1915	ABOVE ***	*
**** FCR	1901 TO 1919		1050 TO	1094	ABOVE ***	*
	1903 TO 1921		837 TO		ABOVE ***	*
**** FCR	1905 TO 1925		962 TO	1014		
**** FCR	1907 10 1927		1050 TO	1094	ABOVE ***	*
**** FCR	1915 TO 1929		109 TO		AROVE ***	
**** FCR	1919 TO 1931		902 TO		ABOVE ***	
**** FCR	1921 TO 1933		910 TO	942		*
**** FCR	1925 TO 1935		1370 TO	1388	ABOVE ***	
**** FCR	1927 TC 1939	-	869 TO	910	AROVE ***	*
**** FCR	1929 TO 1943	-	493 TC	589	APOVE ***	*
1269	1943 TO 1967		2117 TO	2139	5	6
**** FCR	1949 TO 1973		548 TO	962		-
**** FCR	1951 TO 1975		1270 TO	13C2	ABOVE ***	*
**** FOR	1953 TO 1979		1382 TO	1398	AROVE ***	*
**** FCR	1955 TO 1987		853 TO	902		
4*** FCR	1567 TO 1995		669 TO	910	ABOVF ***	
**** FOR	1573 TO 2001		493 TO	589	ABOVE ***	
**** FCR	1975 10 2003		765 TO	805	ABOVE ***	*
**** FCR	1579 TO 2004		1810 TO	1822		*
4*** FCR	1987 TO 2005		481 TO	541	AROVE ***	*
**** FCR	1955 TO 2007			1330	ABOVE ***	*
	2001 10 2009			1334		

FATTERN	NCTES RE	LATED TC	NOTES	TEST	LENGTH
**** FOR 2003		SEE 894		ABOVE ***	
**** FCR 2004		SEF 138			•
**** FOR 2005		SEE 851		ABOVE **	
**** FOR 2007		SEE 948			
**** FCR 2009		SEF 953		ABOVE **	
**** FCR 2C11		SEE 77:			
**** FCR 2013	- - · · · ·	SEE 7:			
**** FCR 2015		SEF 83			
**** FCR 2016		SEF 963		AROVE **	
**** FCR 2C17		SEE 923			
**** FCR 2019		SEF 49			
**** FCR 2020		SEE 3			
**** FCR 2021		SEE 445			
1270 2023		2434			. 6
**** FCR 2024		SEE 1438			
1271 2025		219			6
1272 2025		2259			6
1773 2025		2451			6
**** FCR 2C27		SEF 1350		ABUVE **	
**** FOR 2055		SEE 914		ABOVE **	
**** FCR 2059		SEE 1050		ABOVE **	
**** FCR 2C63		SEF 83			
**** FCR 2C71		SEF 963		ABOVE **	-
**** FOR 2095		SEE 894		ABOVE **	
**** FCR 2C99		SEF 1382		ABOVE **	
**** FCR 2103		SEE 963			
**** FGR 2105		SEF 105			
**** FCR 21C9	TO 2121.	SEF 109			
**** FCR 2111		SEE 12			
**** FCR 2113		SEE 1370			
**** FCR 2117	•	SFF 1430			**
**** FCR 2143		SEF 1370			•
**** FOR 2145		SEE 948			
**** FOR 2147	TO 2165.	SEF 1270	C TO 1302	ABOVE ***	**

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -TCNAL RETROGRADE WAS BEGUN AT 4102 SECONDS INTO EXECUTION.

1274	7 7 7 7 7
	7 7 7
1216 AT 111 IAN 678 III 1869 S	7 7
1277 37 TO 145 1014 TO 1070 5	7
1278 37 TO 145 1104 TO 1134 5	7
1279 37 TC 145 1110 TO 1142 5	
128C 37 TC 145 1126 TO 1158 5	7
1281 37 TO 145 2509 TO 2527 5	7
1282 37 TO 145 2515 TO 2533 5	7
1283 37 TC 145 2563 TO 2603 5	7
1284 49 TO 157 773 TO 837 5	7
1285 49 TO 157 1102 TO 1130 5	7
1286 73 TC 169 765 TO 821 5 1287 73 TO 169 1C94 TO 1126 5	7 7
1288 73 TO 169 1324 TO 1342 5	7
1289 73 TO 169 2361 TO 2391 5	7
1290 109 TO 217 733 TO 805 5	7
1291 1C9 TO 217 1C86 TO 1118 5	7
1292 1C9 TO 217 1973 TO 2003 5	7
1293 1C9 TO 217 2359 TO 2375 5	7
1294 121 TO 241 7C9 TO 797 5	7
1295 241 TO 493 2567 TO 2613 5	7
1296 373 TO 505 2566 TO 2611 5	7
1297 445 TO 541 514 TO 948 5	7
1798 445 TO 541 1706 TO 1728 5 1299 445 TO 541 2239 TO 2263 5	7
1299 445 TO 541 2239 TO 2263 5 13CC 445 TO 541 2347 TO 2363 5	7 7
1301 445 TO 541 2651 TO 2663 5	7
1302 481 TG 589 1863 TO 1887 5	7
1°C3 481 TO 589 2345 TO 2361 5	7
1204 765 TO 821 1542 TO 1586 5	7
13C5 773 TO 837 930 TO 954 5	7
1306 773 TO 837 1022 TO 1074 5	7
13C7 773 TO 837 1392 TO 1446 5	7
13C8 773 TO 837 1534 TO 1582 5	7
13C9 773 TO 837 2516 TO 2535 5	7
1310 894 TO 930 1847 TO 1883 5	7
1311 858 TO 934 2CO1 TO 2011 5 1312 SC2 TO 942 1318 TO 1334 5	7 7
1212	7
1314 9C2 TO 942 2707 TO 2729 5	7
1215 910 TC 946 1314 TO 1330 5	7
1316 910 TO 946 1987 TC 2007 5	7
1317 \$10 TO 946 2293 TO 2307 5	7

PATTERN	NCT	ES	RELATED	TC	NOTE	E S	TEST	LENGTH
1318	514 TO	548		1306		1328	5	7
1319	914 TO			1710		1734	5	7
1320	914 TO			2291		2305	5	7
1321	514 TO	948		2351		2367	5	7
1322	922 TO	952		1218		1286	5	7
1323	522 TO	952		2020		2051	5	7
1324	522 TO	952		2399		2423	5	7
1325	922 TC	952		7659		2687	5	7
1326	548 10	566		1070		1104	5	7
1327	948 10	966		1398		1458	5	7
1328	548 10	966		1630		1650	5	7
1329	548 10	966		1662		1698	5	7
1330	952 TO	57C		1026		1082	5 5	7 7
1331	552 TO	970		1328 1394		1354 1454	5 5	7
1232	552 TO	970 970		2013		2021	5	7
1233 1234	552 TO	570 570		2365		2403	5	7
1335	552 TO	570		2517		2537	5	7
1336	952 TO	970		2761		2775	5	7
1337	562 10	1022		1242		1294	5	7
1338	562 TO	1022		2175		2189	5	7
1339	562 TO			2403		2429	5	7
1340	562 TO	1022		2439		2452	5	7
1341	562 10	1022		2661		2693	5	7
1342	1050 TO	1102		1798		1822	5	7
1343	1050 TO	1102		2479	TO	2497	5	7
1344	1050 TO	1102		2663	TO	2697	5	7
1345	1050 TO	1102		2739	TO	2763	5	7
1346	1266 10	1302		1382	TO	1422	5	7
1247	1266 TO	1302		1590	TO	1644	5	7
1348	1266 TO	1302		1646		168 <i>2</i>	5	7
1349	1266 TO			1742		1768	5	7
1350	1266 TO			2099		2117	5	7
1351	1266 TO			7167		2183	5	7
1352		1302		2277		2299	5	7
1353	1266 10			2495		2515	5	7
1254	1266 TO			2791		2803	5	7
1355	1286 TO			2535		2553	5 5	7 7
1256	1318 70			1554		1614		
1357	1318 TO			1690		1722 1933	5 5	7 7
1358 1359	1318 TO 1320 TO			1919 1546		1590	5	7
	1320 TO			1915		1931	5	7
1360 1361	1370 10			1955		1995	5	7
1262	1382 TO			1814		1827	5	7
1363	1382 10			2177		2191	5	7
1364	1382 TO			2683		2701	5	7
1365	1382 TO			2719		2743	5	7
1766	1430 TO			2263			5	7
1367	1438 TO			1887		1907	5	7
1368	1454 10	1476		2549	TO	2563	5	7

PATTERN	NCTES	RELATED TO	NOTES	TEST	LFNGTH
1369	1486 TO 1526	229	37 TO 2311	5	7
1370	1510 TO 1554	255	3 TO 2565	5	7
1371	1768 TO 1784	2 6 2	29 TO 2647	5	7
1372	1810 TO 1824	190	5 TO 1927	5	7
1373	1810 TO 1824	210	3 TO 2119	5	7
1374	1891 TO 1915	202	23 TO 2059	5	7
1375	1891 TO 1915	225	55 TO 2275	5	7
1376	1891 TO 1915	245	55 TO 2477	5	7
1377	2025 10 2071	219	14 TO 2239	5	7

SEARCH FOR PATTERNS CF 8 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 4133 SECONDS INTO EXECUTION.

PATTERN	NCTFS	RELATED TC NOTES	TEST	LENGTH
1378	1 TO 145	1126 TO 1166 773 TO 853	5 5	8 8
	37 TO 157			
	37 10 157	1102 TO 1134 765 TO 837	5	8
	49 TO 169	1094 TO 1130	5 5	8
	49 10 169		5	8 8
	73 TO 217 73 TO 217	733 TO 821 1086 TO 1126	5 5	8
	73 10 217	2359 TO 2391	5	8
			5	8
	C9 TO 241	709 TO 805 2566 TO 2613	5	8 8
	73 10 517	2565 TO 2611	5	8
	45 TO 589	2345 TO 2363	5	8
	65 TO 837	1534 TO 1586	5	8
	73 TO 853	1014 10 1074	5	8
	73 TO 853	2515 TO 2535	5	8
	13 TO 233	1995 TG 2011	5	8
	C2 TO 546	1314 TO 1334	5	8
	C2 TO 546	1987 TO 2009	5	8
	10 TO 548	1306 TO 1330	5	8
	10 10 948	2291 TO 2307	5	8
	48 10 970	1394 TO 1458	5	8
	52 TO 578	1326 TO 1354	5	8
	52 10 578	2011 TG 2021	5	8
	52 TO 578	2363 TO 2403	5	8
	52 10 578	2759 10 2775	5	8
	62 10 1026	1218 TO 1294	5	8
	62 10 1026	2399 TC 2429	5	8
-	62 TO 1026	2659 TO 2693	5	8
	50 10 1104	1790 TO 1822	5	8
	50 TO 1104	2477 TO 2497	5	8
1408 10		2735 TO 2763	5	8
1409 12		2533 TO 2553	5	8
1410 13		1546 TO 1614	5	8
	18 TO 1338	1915 TO 1933	5	8
1412 13		1542 TO 1590	5	8
1413 13		1953 TO 1995	5	8
1414 13		2175 TO 2191	5	8
1415 14		2547 10 2563	5	8
1416 18		2C99 TO 2119	5	8

SEARCH FOR PATTERNS CF 9 NOTES IN LENGTH -TCNAL RETROGRADE WAS BEGUN AT 4155 SECONDS INTO EXECUTION.

PATTERN	NCT	ES	RELATED	TC	NOTES	TEST	LENGTH
1417	37 TO	169		765	TO 853	5	9
1418	37 TO	169		1094	TO 1134	5	9
1419	49 10	217		73 3	TO 837	5	9
142C	49 10	217		1086	TO 1130	5	9
1421	73 TO	241		709	TO 821	5	9
1422	241 TO	517		2565	TO 2613	5	9
1423	858 TO	946		1587	TO 2011	5	9
1424	9C2 TO	948		1306	TO 1334	5	9
1425	552 TO	1002		2005	TO 2021	5	9
1426	552 10	1002		2755	TO 2775	5	9
1427	562 10	1034		1210	TO 1294	5	9
1428	562 TO	1034		2391	TO 2429	5	9
1429	962 TO	1034		2657	TO 2693	5	9
1430	1050 TO	1106		1788	TO 1822	5	9
1421	1050 TO	1106		2475	TC 2497	5	9
1432	1286 TC	1326		2531	TO 2553	5	9
1433	1218 10	1342		1542	TO 1614	5	9
1434	1370 TO	1398		1951	TO 1995	5	9

SEARCH FOR PATTERNS CF 10 NOTES IN LENGTH -TONAL RETROGRACE WAS BEGUN AT 4173 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
1425	37 TC 217		733 TO 853	5	10
1436	37 70 217	1	IC86 TO 1134	5	10
1437	49 TO 241		709 TO 837	5	10
1438	952 TC 1C14	Ź	2751 TO 2775	5	1 C

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 4189 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
1439	37 TC 24	1	709 TO 853	5	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -TONAL RETROGRADE WAS BEGUN AT 4205 SECCADS INTO EXECUTION.

PATTERN NCTES RELATED TO NOTES TEST LENGTH

FND CF TYPE I LISTING. TOTAL OF 1439 PATTERNS LOCATED.

*** TYPE II LISTING ***

JOHN DUNSTABLE ISORHYTHMIC MCTET VENI SANCTE SPIRITUS TONAL RETROGRACE

	LOCAT GF FI OCCURR	RST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern	
CRIGINAL FATTERN	37 TC	241	2	11	
SLEPATTERN	73 TO	217	4	8	
SLEPATTERN	1C9 TG	217	5	7	
SLEPATTERN	73 TO	169	5	7	
SLEFATTERN	37 TC	145	10	7	
SLEPATTERN	121 TC	217	11	6	
SLEFATTERN	109 TC	169	8	6	
SLEPATTERN	73 TO	157	8	6	
SLEPATTERN	45 TC	145	17	6	
SLEPATTERN	37 TC	133	22	6	
SUBFATTERN	145 TC	241	4	5	
SUBFATTERN	133 TO	217	16	5	
SUPPATTERN	121 TC	169	18	5 5 5 5	
SUPPATTERN	109 TO	157	15	5	
SLEPATTERN	49 TC	133	38	5	
SLEPATTERN	37 TC	121	29	5	
SLEPATTERN	157 TC	241	13	4	
SLBPATTERN	145 TC	217	48	4	
SLPPATTERN	121 TC	157	44	4	
SLEPATTERN	49 TC	121	5 <i>2</i>	4	
SLEPATTERN	37 TC	109	65	4	
SLEPATTERN	169 TC	241	29	3	
SLEPATTERN	49 TG	109	123	3	
SLEPATTERN	37 TO	73	109	3 3	

**** TEST 5 CCMPLETEC AT 4476 SECONDS INTO EXECUTION ****

4******* MUSIC MELODIC PATTERN ANALYSIS *********

JCHN CUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

TEST REQUESTEC 13
UNITS OF CATA PER CARD 12

CCMFLTER REFERENCE NUMBER ASSIGNMENT

NOTES 45	c 1	THRCUGH C C		c	С	С	0	С	0
NCTES C	13 C	THRCUGH C C		С	С	С	0	0	0
NC1ES -1		THRCUGH C C		С	С	С	0	С	0
NCTES 45		THRCUGH C 0		0	0	С	o	0	0
NCTES		THR CUGH		C	С	С	0	C	0
NC TES		THRCUGH C C		0	О	c	0	C	0
NC1ES 45		THRCUGH C C		0	С	С	0	С	0
NC TES		THRCUGH C C		0	С	С	0	0	С
NC TFS		THRCUGH C 0		0	С	С	0	С	0
NCTES 5C	105 C	THREUGH O C		О	0	С	0	С	С
NETES 49	121 C	THRCUGH C O		0	С	С	0	С	С
NCTES 5C	133 C	THRCUGH 0 0		0	С	С	0	0	0
NOTES 47		THR CUGH C C		0	С	С	0	С	0

The remaining portion of the list of input data for Test 13 of the Dunstable motet is identical to that shown for Test 5. In order to reduce the size of this appendix, these pages have been omitted.

The interval tables appearing with Tests 13 and 12 are also similar to the tables shown with Test 5. In order to reduce the size of this appendix, these interval tables have also been omitted.

*** TYPE I LISTING ***

JOHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 47 SECONDS INTO EXECUTION.

PATTERN	NC	res	RELATED T	C NO	OTES	TEST	LENGTH
1 2 3	1 TO 37 TO 49 TO	73			TO 421 TO 445	13 13 13	3 3 3
4 5	73 TO	121		445	10 493 10 505	13 13	3 3
6 7	121 TO	217		529 1	ro 517 ro 589	13 13	3 3
8 **** FGR **** FOR	169 TO 481 TO 493 TO	505		121 1	TO 613 TO 145 TO 133	13 ABOVE *** ABOVE ***	
9 10	781 TO	797		1510 1 1026 1	TO 1526	13 13	3 3
11 12 13	789 TO 902 TO 930 TO	914		1534 1	TO 1438 TO 1546 TO 1494	13 13 13	3 3 3
14 15	934 TO	946 946		1306 1 2519 T	0 1318 0 2531	13 13	3 3
16 17 18	542 TC 546 TC 546 TC	952		1318 1	0 1320 0 1324 0 2181	13 13 13	3 3 3
19 20	546 TO	952 952		2291 1	0 2297 0 2445	13 13	3 3
21 22 23	546 TO 546 TO 552 TO	952		2727 1	0 2619 0 2733 0 1474	13 13 13	3 3 3
24 25	952 TO	956 956		1752 T 2005 T	0 1756 0 2009	13 13	3 3
26 27 28	552 TO 552 TO 552 TO	956		2345 1	0 2189 0 2349 0 2557	13 13 13	3 3 3
29 30	952 TO	956 956		2695 T 2761 T	0 2699 0 2765	13 13	3 3
31 32 33	552 TC 552 TC 556 TC	956		2799 T	0 2797 0 2803 0 1762	13 13 13	3 3 3
34 35	956 TC	962 966		2257 T 1126 T	0 2263	13 13	3 3
36 **** FOR 37	962 TC 1014 TC 1022 TC	1C26.	SEF	502 T	70 1690 70 914 70 1294	13 ABOVE ***	3 • 3
**** FOR **** FOR	1026 TO	1042.		781 T	0 797 0 942		•

i	•	ICTE	S	RELATED	70) 🛉	OTE	S	TE	ST	LENGTH
ıR	1074	TO	1086.	. SI	EE	902	10	914	ABOVE	***	*
	1086	TO	1102			1690	TO	1706	13	3	3
	1104	TO	1110			1973	TO	1979	13	3	3
R	1106	TO	1118.	S	EE	1022	10	1034	ABOVE	***	*
	1110	TO	1126			1438	TO	1454	1	3	3
	1118	TC	1130			2591	TO	2603	13	3	3
	1126	TO	1134			1198	TO	1206	13	3	3
	1126	TO	1134			1330	TO	1338	13	3	3 3 3
	1126	TO	1134			2411	TO	2419	13	3	
	1126	TC	1134			2599	TO	2607	13	3	3 3 3 3
	1130	TO	114C			1758	TO	1768	13	3	3
	1130	TO	1140			2071	TO	2081	13	3	3
	1130	TO	1140			2399	TO	2409	13	3	3
	1130	TO	1140			2419	TO	2429	13	3	3
	1130	TO	1140			2483	TO	2693	13	3	3
	1134	TO	1142			2403	TO	2411	13	3	3
R	1198	TO	1206.	S	EE	958	TO	966	ABOVE		*
R	1202	TO	1210.		EE	962	TO	970	ABOVE	***	*
R	1266	TO	1274	Si	EE	962	TO	970	ABOVE	***	*
IR	1270	TO	1282.	SI	EE	930	TO	942	ABOVE	***	*
	1282	TO	1294			1662	TO	1674	13	3	3
	1306	TO	1318			2279	TO	2291	13	3	3
	1314	TO	1320			1476	TO	1482	13	3	3
	1214	TO	1320			1722	TO	1728	13	3	3
	1314	TO	1320			1915	TO	1921	13	3	3 3 3 3
	1314	TO	1320			2537	TO	2543	13	3	3
	1314	TO	1320	•		2769	TO	2775	13	3	3 3 3 3
	1218	TO	1324			1386	TO	1392	13	3	3
	1318	TO	1324			1638		1644	13		3
	1318	TO	1324			1919		1925	13		
	1318	TO	1324			2103	TO	21C9	13	3	3
	1318	TO	1324					2117	13		3
	1318		1324			2169		2175	13		3 3
	1318		1324			2487		2493	13		
	1318		1324			2535	TO	2541	13		3
) P	1328		1334		EE	956	TO		ABOVE		
) F	1330		1338.		EE	958	TC			***	
`R	1334		1342.	SI	EE	962	TO		ABOVE		
	1378		1386			1718		1726	13		3
	1378		1386			1774	TO	1782	13		3
	1378		1386	_		2751		2759	13		. 3
) R			1392			946	TO		ABOVE		
) P	1422		1438.	S S	EE	781			ABOVE		
	1438		1454			1666		1682	13		3
	1466	TO	1472			2177	TO	2183	1		3 3 3 3
	1466		1472			2293	TO	2299	1		3
	1466		1472			2355		2361	1		3
	1466	10	1472			2527		2533	13		3
	1470		1474					1648	13		3
	1470		1474			1881		1885	13		3 3
	1470	10	1474			1929	10	1933	13	5	5

PATTERN	١	NOTES	RELATED TO	۸ ۵	IOTE	ES	TEST	LENGTH
78	1470	TO 1474		2009	TO	2013	13	3
79		TO 1474		2165	TO	2169	13	3
8 C		TO 1474		2181	TO	2185	13	3
8 1	1470	TO 1474		2253	TO	2257	13	3
8 2		TO 1474		2297	TO	2301	13	3
83		TO 1474		2343	TO	2347	13	3
84	1470	TO 1474		2359	TO	2363	13	3
85		TO 1474		2555	TO	2559	13	3
٤6	1470	10 1474		2627	TO	2631	13	3
87	1470	TO 1474		2763	TO	2767	13	3
88		TC 1474		2797	TO	2801	13	3
**** FOR		TO 1482	, SEE	942	TO	948	ABOVE ***	*
89		TO 1494				2751	13	3
4*** FCR		TO 1526			TO		ABOVE ***	*
90		TO 1640				2729	13	3
**** FCR		TO 1644		946	TO		ABOVE ***	*
**** FOR		TO 1648			TO		ABOVE ***	
**** FCR	_	TO 1674					ABOVE ***	
**** FCR		TC 1682					ABOVE ***	
		TO 1722				1130		
91		TO 1726	, 566			2155	13	3
92	1718					2359	13	3
92 93		TO 1726				2487	13	3
		TO 1728			TO		AROVE ***	_
		TO 1738			TO		ABOVE ***	
**** FGR							ABOVE ***	
94		TO 1762	366	_		2415	13	3
95		TC 1762				2739	13	3
95 56		TO 1768				2645	13	
57		10 1774				1887	13	3 3
		TO 1774				2259	13	3
98						2635		3
99						2769	13	3
100		TO 1774	crr				13 ABOVE ***	
**** FOR		TO 1782	255			2025	13	* 3
161						2517	13	3
102								_
**** FOF		TO 1885			TO		ABOVE ***	
103		TO 1887				1907		3
104		TO 1887					13	3
105		TO 1887		2119		2113	13	3
1 66	1 8 8 3	TC 1887				2279	13 13	3 3
107	1883	TO 1887						
108		TO 1887				2327	13	3
109		TO 1887				2537	13	3
110		TO 1887		2707			13	3
111		TO 1895				1943	13	3
112		TO 1895		2307			13	3
113	1851	TC 19C1				1949	13	3
114		TO 19C1	 =			2321	13	3
**** FCR		TO 1907					ABOVE ***	
**** FOR	1915	TC 1921	• SEF	942	10	948	ABOVE ***	Ŧ

TEST LENGTH NCTES RELATED TO NCTES PATTERN 952 ABOVE **** 946 TO **** FOR 1919 TO 1925. SEF 952 TO 956 ABOVE **** **** FOR 1929 TC 1933. SEE 3 115 1939 TC 1949 2263 TO 2273 13 SEE 1770 TO 1774 ABOVE **** **** FOR 1951 TO 1955. **** FOR 2005 TO 2009. SEE 1470 TO 1474 ABOVE **** 952 TO 956 ABOVE **** **** FCR 2009 TO 2013. SEE 2021 TO 2024 3 116 2C13 TO 2016 13 2191 TO 2194 3 117 2C13 TC 2016 13 2445 TO 2448 3 2C13 TO 2016 13 118 2513 TO 2516 3 13 2C13 TO 2016 119 SEE 1818 TO 182C ABOVE **** **** FOR 2C15 TO 2017. SEE 1818 TO 182C ABOVE **** **** FOR 2019 TO 2021. 2455 TO 2458 13 3 120 2021 TO 2024 2563 TO 2566 13 3 2021 10 2024 121 122 2021 TO 2024 2659 TO 2662 13 3 3 2803 TO 2806 13 123 2021 TC 2024 **** FOR 2071 TC 2081. SEE 1758 TO 1768 ABOVE **** 2503 TO 2513 3 124 13 2083 TO 2093 125 2089 10 2095 2615 TO 2621 13 3 946 TO 952 ABOVE **** **** FGR 2103 TO 2109. SEE **** FOR 2109 TO 2113. SEE 1770 TO 1774 ABOVE **** 946 TO 952 ABOVE **** **** FGR 2111 TO 2117. SEE SEE 1770 TO 1774 ABOVE **** **** FOR 2119 TO 2123. SEF 1378 TO 1386 ABOVE **** **** FOR 2147 TC 2155. **** FCF 2165 TO 2169. SEE 952 TO 956 ABOVE **** **** FOR 2169 TO 2175. SEE 946 TO 952 ABOVE **** SFE 1318 TO 1324 ABOVE **** **** FCR 2175 TO 2181. \$52 TO 956 ABOVE **** **** FOR 2181 TO 2185. SEE SEE 1470 TO 1474 ABOVE **** **** FCR 2185 TO 2189. SEE 2021 TO 2024 ABOVE **** **** FCP 2191 TC 2194. **** FOR 2253 TG 2257. SEE 952 TO 956 ABOVE **** SEE 1883 TO 1887 ABOVE **** **** FCR 2255 TO 2259. **** FOR 2257 TO 2263. SEE 1756 TO 1762 ABOVE **** SEE 1891 TO 1901 ABOVE **** **** FOR 2263 TO 2273. **** FOR 2275 TO 2279. SEE 1770 TO 1774 ABOVE **** **** FOF 2279 TO 2291. SEE 934 TO 946 ABOVE **** **** FOR 2291 TO 2297. SEE 1318 TO 1324 ABOVE **** **** FCR 2297 TC 2301. SEF 952 TO 956 ABOVE **** SEE 1939 TO 1949 ABOVE **** **** FCR 2311 TC 2321. 4444 FOR 2323 TO 2327. SEE 1770 TO 1774 ABOVE **** 952 TO 956 ABOVE **** **** FCR 2343 TO 2347. SFF SEE 1470 TO 1474 ABOVE **** **** FOR 2345 TC 2349. SEE 1378 TO 1386 ABOVE **** **** FOR 2351 TO 2359. **** FCR 2359 TO 2363. SEF 952 TO 956 ABOVE **** SEE 1758 TO 1768 ABOVE **** **** FCR 2359 TC 2409. 956 TO 962 ABOVE *** **** FOR 2409 TO 2415. SEE SEE 958 TO 966 ABOVE **** **** FOR 2411 TO 2419. **** FCR 2419 TO 2429. SEF 1758 TO 1768 ABOVE **** SEE 1318 TO 1324 ABOVE **** **** FCR 2439 TO 2445. **** FOR 2445 TO 2448. SEE 2021 TO 2024 ABOVE **** SEE 2109 TO 2448 ABOVE **** **** FOR 2453 TO 2457.

PATTE	PN	ı	NCTI	ES	RELATED	TC		OTE	S	TES	T LENGTH
****	FCP	2455	TC	2458.	SI	EF	2013	TO	2016	ABOVE	***
****	FCR	2457	TO	2459.	S	EE	2015	TO	2355	ABOVE	***
****	FGR	2479	TO	2487.	S	EE	1378	TO	1386	ABOVE	****
****	FCR	2487	TO	2493.	SI	EE	946	TO	952	ABOVE	****
****	FOR	2489	TC	2495.	S	EF	1466	TO	1472	ABOVE	****

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 1052 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TC NOTES	TEST LENGTH
126 127	1 TO 7: 37 TO 10:	409 TO 481	13 4
128	49 TO 12		
129	73 10 13		
130	109 TO 14		
131 132	121 TO 15 145 TC 21		
133	157 TG 24		
134	534 TO 54		
125	934 10 94		
136	542 TO 95		
137	946 TO 95		
138	548 TO 55		
139	552 TO 55		
140	952 TO 95		
141	952 TO 95		13 4
142	\$52 TO \$5		
143	\$54 TO \$6.		
144 145	1086 TO 110		
146	1086 70 110		
147	1118 TO 113		
148	1130 TO 114		
149	1314 TC 132		
150	1318 TC 132		13 4
151	1318 TO 132		
152	1318 TO 132		
153	1318 TC 132		
**** FOR			ABOVE ****
154	1378 TC 138		
155 156	1378 TC 138 1382 TO 139		
157	1382 TO 139		
158	1382 TO 139		
159	1386 TO 139		
160	1438 10 145		
161	1438 TO 145	1666 TO 1686	13 4
162	1466 TO 147		
163	1466 TC 147		
164	1466 TO 147		
165	1466 70 147		
166	1466 TO 147		
167	1466 TC 147		_
168	1470 10 147	5 1929 TO 1935	13 4

PATTERN	١	NC T	ES	RELATED	TO	N	OTE	S	TES	T E	_ENG TH
169			1476					2171	13		4
170			1498					2755	13		4
171			1498					2755	13		4
172			1640 1644		27			2729 2733	13 13		4
173 **** FOR			1646		E 9				ABOVE		•
**** FCR						48 °			ABOVE		
**** FCR			1758					1476			
174			1778	, ,	18			1891	13		4
175			1778		26:			2639	13		4
176			1778					1891	13		4
177			1778					2639	13		4
178	1772	10	1782		214	45	TO	2155	13		4
179	1772	TO	1782					2359	13		4
180			1782					2487	13		4
181			1784					2489	13		4
182		_	1891					2715	13		4
183	1 8 8 3		1891					2715	13		4
184			1895					1943	13		4
185			1895					2315	13		4
186			1901					1949	13		4
187			1901					2321	13		4
188	1687		1901					1949	13		4
189 190			1901 1907					2321 2635	13 13		4
**** FOR			1925			42 1			ABOVE	***	•
**** FOR						46			ABOVE		
151	1527		1933	, 30				2189	13		4
152	1527		1933					2699	13		4
193	1527		1933					2765	13		4
194	1927							2797	13		4
**** FCR	1529		1935.	, SE		52 1			ABOVE	***4	
4*** FOR	1949	TO	1955	, SE	E 190	01 1	TO	1907	ABOVE	***4	3
155	2CC5	TO	2011		210	31 1	TO	2187	13		4
156	2005		2011					2303	13		4
157	2CC5		2011					2365	13		4
198			2011					2633	13		4
**** FCR				, SE					ABOVE	****	1
159	2C11							2194	13		4
200	2013		2017					2025	13		4
701	2013		2017					2517	13		4
			2109.						ABOVE		
			2111.				10		ABOVE		
			2119.			46			AROVE		
**** FCR	2111	١U	2123	, St	C TA	JI I	ıU	1707	ABOVE	+++	•

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 1467 SECONDS INTO EXECUTION.

FATTERN	ı	NCT	ES	RELATED	TC	: 1	101	ES	TEST	LENGTH
202	1	TO	109			373	TO	481	13	5
203	37	TO	121			409	TO	493	13	5
204	49	TO	133			421	TO	505	13	5
2C5	73	TC	145			445	TO	517	13	5
2 C E	105	TO	157			481	TO	529	13	5
207	121	TO	169			493	TO	541	13	5
208	123	TO	217			505	TO	589	13	5 5
209	145	TO	241			517	TO	613	13	5
210	934	TO	952			1306	TO	1324	13	5
211	534	TC	952			1306	TO	1324	13	5
712	942	TO	954			1314	TO	1326	13	5
213	552	TO	962			1752	TO	1762	13	5
214	1682	TC	1104			1686	TO	1708	13	5 5
215	1314	TO	1326			1915	TO	1927	13	5
216	1318	TC	1328			1919	TO	1929	13	5
217	1318	TO	1328			2111	TO	2121	13	5 5
218	1626	TC	1644			2715	TO	2733	13	5
219	1772	TO	1784			2477	TO	2489	13	5
220	1885	TC	1901			1933	TO	1949	13	5
221	1885	TO	1901			2305	TO	2 321	13	5
**** FCR	1915	TO	1927	SE	E	942	TO	954	ABOVE ***	*
222	1925	TO	1933			2789	TO	2797	13	5
223	1927	10	1935			2693	TO	2701	13	5
724	1529	TC	1939			2345	TO	2355	13	5
225	2005	TC	2013			2181	TO	2189	13	5

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -- EXACT RHYTHM WITH TONAL INVERSION WAS BEGUN AT 1836 SECONDS INTO EXECUTION.

FATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
226	1 TC 12	1	373 TO 493	13	6
227	37 TO 13	3	409 TO 505	13	6
228	49 10 14	5	421 TO 517	13	6
229	73 TC 15	7	445 TO 529	13	6
230	109 TO 16	9	481 TO 541	13	6
231	121 TC 21	7	493 TO 589	13	6
232	133 10 24	1	505 TO 613	13	6
233	934 TO 95	4	1306 TO 1326	13	6
234	534 TC 55	4	1306 TO 1326	13	6
235	1314 TO 132	8	1915 TO 1929	13	6

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2190 SECONDS INTO EXECUTION.

PATTERN	NCTE	S	RELATED	TC	١	NOTE	S	TEST	LENGTH
236	1 TC	133			373	TO	505	13	7
237	37 TO	145			409	TO	517	13	7
238	49 10	157			421	TO	529	13	7
239	73 10	169			445	TO	541	13	7
240	109 TG	217			481	TO	589	13	7
241	121 TO	241			493	TO	613	13	7

SEARCH FCR PATTERNS CF 8 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2206 SECCNDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TO NOTES	TEST	LENGTH
242	1 TC	45	373 TO 517	13	8
243	37 10	57	409 TO 529	13	8
244	49 10	69	421 TO 541	13	8
245	73 TO 2	17	445 TC 589	13	8
246	109 TO .	41	481 10 613	13	8

SEARCH FOR PATTERNS CF 9 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2222 SECCODS INTO EXECUTION.

PATTERN	NCTES	RELATED TC	NOTES	TEST	LENGTH
247	1 TO 157		373 TO 529	13	9
248	37 TO 169	1	409 TO 541	13	9
249	49 TO 217	•	421 TO 589	13	9
250	73 10 241		445 TO 613	13	9

SEARCH FOR PATTERNS CF 10 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2238 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
251	1 10 16	9	373 TO 541	13	10
252	37 TC 21	7	409 TO 589	13	10
253	49 10 24	1	421 TO 613	13	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2254 SECONDS INTO EXECUTION.

FATTERN	NCTES	RELATED 1	TC NOTES	TEST	LENGTH
254	1 TC 2	17	373 TO 589	13	11
255	37 TO 2	41	409 TO 613	13	11

SEARCH FOR PATTERNS CF 12 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2269 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TC	NOTES	TEST	LENGTH
256	1 TO 24	1	37	3 TO 613	13	12

SEARCH FOR PATTERNS CF 13 NOTES IN LENGTH -- EXACT RHYTHM WITH TCNAL INVERSION WAS BEGUN AT 2285 SECONDS INTO EXECUTION.

FATTERN NCTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 256 PATTERNS LOCATED.

*** TYPE II LISTING ***

JOHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS EXACT REVIEM WITH TONAL INVERSION

	LOCATION CF FIRST OCCURRENCE	TOTAL NUMBER OF CCCURRENCES	LENGTH OF Pattern
CRICINAL FATTERN	1 TO 241	2	12

**** TEST 13 COMPLETED AT 2342 SECONDS INTO EXECUTION ****

The following score shows the computer-assigned reference numbers used for Test 12 of the Dunstable motet.































******* *** MUSIC MELODIC PATTERN ANALYSIS *********

JOHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

TEST REQUESTED 12
UNITS OF CATA PER CARD 12

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NGTES 1 THROUGH 12									
C C O O 57 C O O 59 O O O NCTES 25 THRCUGH 36 C C O O 57 C O O O O 55 C NCTES 37 THRCUGH 48 52 O 55 C 54 C O O 52 O C C NCTES 49 THROUGH 60 57 C O O O O 57 O 56 O 54 O NCTES 61 THRCUGH 72 57 C C O O -1 O O O 54 O O NCTES 73 THRCUGH 84 5C C 55 C O O 54 O 52 O 5C O NCTES 65 THRCUGH 96 45 C 50 O 52 C O O 54 O O NCTES 57 THRCUGH 108 5C O 0 O O C 50 O 49 O 47 C NCTES 105 THRCUGH 108 5C C C O O -1 C O O O O O NCTES 121 THRCUGH 132 54 O O O O O 52 C 5C O C O NCTES 133 THRCUGH 144 52 C C C O O C O 54 O C O	NGTES 5C	1 THROUGH C C O O	12 C	0	0	54	0	С	0
C C O O 57 C O O O O 55 C NCTES 37 THRCUGH 48 C O O 52 O C C NCTES 49 THROUGH 60 57 O 56 O 54 O NCTES 61 THRCUGH 72 C O O 54 O O NCTES 73 THRCUGH 84 C O O 54 O O NCTES 73 THRCUGH 84 C O O 54 O O NCTES 65 THRCUGH 96 C O O 54 O O NCTES 65 THRCUGH 108 5C O O O C O NCTES 97 THRCUGH 108 5C O O O O O O NCTES 105 THRCUGH 120 C O O O O O NCTES 105 THRCUGH 120 C O O O O O O NCTES 121 THRCUGH 132 54 O O O O O O NCTES 133 THRCUGH 144 C O O O O O NCTES 133 THRCUGH 144 C O O O O O O NCTES 133 THRCUGH 144 C O O O O O O O NCTES 1345 THRCUGH 156				0	0	59	0	0	0
52 0 55 C 54 C 0 0 52 0 C C NCTES				0	0	0	0	55	С
57 C O O O O 57 O 56 O 54 O NOTES				0	0	52	0	С	С
57				57	0	56	0	54	0
5C C 55 C 0 0 54 0 52 0 50 0 NCTES E5 THRCUGH 108 0				0	0	54	0	0	0
45				54	0	52	0	5 C	0
5C 0 0 0 0 0 50 0 49 0 47 C NCTES 105 THRCUGH 120 0 0 0 0 0 0 C NCTES 121 THRCUGH 132 52 C 5C 0 C 0 NCTES 133 THRCUGH 144 0 0 54 0 0 0 NCTES 145 THRCUGH 156				0	0	54	0	C	0
5C C G O -1 C O O O O O C NCTES 121 THRCUGH 132 C 5C O C O NCTES 133 THRCUGH 144 C O O 54 O C O NCTES 145 THRCUGH 156				50	C	49	0	47	С
NCTES 121 THRCUGH 132 C 5C 0 C 0 NCTES 133 THRCUGH 144 C 0 0 54 0 0 NCTES 145 THRCUGH 156				0	0	0	0	0	c
NCTES 133 THRCUGH 144 52 C C C O O C O 54 O C O NCTES 145 THRCUGH 156	NCTES	121 THRCUGH 1	.32				0	C	0
NCTES 145 THROUGH 156	NCTES	133 THRCUGH 1	.44				_		_
	NCTES	145 THRCUGH 1	.56						_

NOTES 55	157 57				8 8 0	59	0	55	0	57	0
NOTES 59	169 57					57	0	56	57	54	0
NOTES 57	181 C	THR (UGH 0		92 C	0	0	С	0	0	0
NCTES -1	193 C	THRO			04 C	0	C	c	0	C	c
NCTES 59	205 C	THRO				0	0	57	0	С	0
NCTES 55	217 C	THR(0	0	54	ა	0	O
NCTES 57	229 C	THR(0	_	55	0	52	0	c	0
NCTES	241 C	THR(50	0	5 C	0	С	0
NCTES 55	253 C	THRO				59	C	С	0	55	С
NOTES 54		THR(55	0	54	0	52	0
NCTES	277 C	THR(88	0	0	c	o	C	0
NCTES 57	289 C					0	0	57	0	55	0
NCTES 54		THRO	UGH	3	12			54			0
NCTES 54		THR(UGH	3.	24	50	С	49	0	50	
NCTES 52		THRO	CUGH	3:	36	45		c	0		
NCTES	337	THRO	JUGH	3	48	50		49			
NGTFS 5C		THRO	CUGH	3		0	0	c	0	c	C
NC TES	_	THR(3		c	C	c	0		0
•	•	•	_	_	•	•	_	•	-	_	_

NCTES 54		THROU C C		0	0	57	0	O	0
NC TES		THRCL 0 C		55	0	54	0	С	0
NC TES C		THRCU 0 0		С	0	С	0	50	0
NC TES 47	409 (5	THRCU C C		0	0	5 C	0	С	С
NCTES 55	421 C	THRCU C C		55	0	54	0	52	0
NCTES 55	433 C	THRCU O O		9	0	59	0	C	С
NCTES 57	445 C 5	THROU 4 C	 	55	0	52	0	54	0
NOTES 55		THRCL 7 C		0	0	60	0	c	0
NOTES 57		THROL C C		57	0	56	0	54	0
NOTES 57		THRCL C C		0	c	c	0	С	C
NOTES 57		THRCU C C		52	С	57	0	55	С
NCTES 54		THRCU C C		0	0	54	O	5 C	0
NCTES 54		THRCU 5 (c	C	C	0	55	0
NCTES 59		THRCL C (0	0	c	0	0	0
NCTES C		THRCL C C		0	c	С	0	0	o
NCTES 52	553 C	THRCU C C		0	o	С	0	55	c
NOTES 57		THRCU C C		0	o	54	o	С	0
NCTES 55		THRCL C (54	0	54	0	0	52

NCTES 52			-	1 60 50		47	0	0	0	52	0	
NCTES 50	601 52			61.		52	С	51	0	52	49	
NCTES 52				-1		o	0	59	0	0	0	
NCTFS C				1 63 59		57	С	55	0	0	0	
NCTES 52				1 641 54		57	0	0	0	54	0	
NCTES 55				1 66 59		0	0	55	0	0	0	
NCTES C				67.		55	0	54	55	52	0	
NOTES 54				-1		0	0	50	0	0	0	
NCTES 52				47 47		52	0	С	0	50	0	
NCTES 52				1 70: 52		54	0	С	0	55	C	
NCTES 57				1 729 57	_	57	0	56	0	57	54	
NCTES 57	721 0			1 73. 0		0	0	c	0	0	0	
NCTES -1				1 74 4		0	С	С	o	0	0	
		UN	ITS	OF D	ATA	PER	CARD	CH.	ANGE	0 10		8
NCTES 5C				1 75 0		0	0					
NOTES 54	753 0			1 76 52		0	0					
NC TES 57	761 C			1 76 57		57	C					
NOTES 55				1 77 6		59	c					

ACTEC	333 TUDGUCH 384		
C	777 THRCUGH 784 0 57 0 57 C	54	C
	785 THROUGH 792 C 57 0 54 0	0	С
NCTES 5C	793 THRCUGH 800 C 0 0 -1 C	55	С
NCTES 55	801 THRCUGH 8C8 C C O 54 O	52	С
	809 THRCLGH 816 C 5C 0 49 C	50	47
	E17 THRCUGH 824 C 0 C 0 C	o	0
NCTES -1	825 THRCUGH 832 C C C C C	0	0
	833 THRCUGH 840 C C 0 52 C	0	o
NCTES 54	E41 THRCUGH 848 C C G O O	50	0
NCTES 55	849 THRCUGH 856 C 57 0 54 C	52	0
NCTES C	E57 THRCUGH 864 C 5C 0 49 0	47	С
NCTES 49	865 THRCUGH 872 C C 0 50 0	0	၁
NCTES F2	E73 THRCUGH 88C C C O C C	0	0
NCTES 54	881 THRCUGH 888 C 5C C O O	54	0
NCTES 55	889 THRCUGH 896 C C O 52 C	c	0
NCTES FC	897 THRCUGH 904 C C O -1 C	0	0
NCTES 54	905 THRCUGH 912 0 C 0 57 C	0	С
NCTES 55	913 THRCUGH 92C C 57 0 59 C	55	0

NCTES	921	THE	CUGF	1 92	28		
57	C	56	0	0	0	54	0
NOTES	929	THE	CUGF	1 93	36		
57	С	C	0	-1	0	54	0
NCTES	937	THR	CUG	1 94	4		
54	C	5 C	0	0)	47	0
NOTES							
49	C	5 C	0	52	0	49	0
NCTES	953	THR	CUGF	1 96	S C		
47	(5 C)	49	С	50	47
NCTES	561	THR	CUGH	96	8		
5 C	C	0	0	O	С	0	0
NCTES	969	THR	CUGH	1 57	16		
C	C	C	0	0	С	0	0

UNITS OF DATA PER CARD CHANGED TO 1
NCTE 977 59999

UNITS OF CATA PER CARD CHANGED TO NCTES 578 THROUGH 585 0 0 0 0 0) C C 0 C 0 5 C NCTES 990 THROUGH 1001 C C C O0 C 0 0 NOTES 1002 THROUGH 1013 C 0 48 43 C C 0 45 0 NCTES 1014 THROUGH 1025 C C C 0 5C 0 0 48 0 0 0 NCTES 1026 THRCUGH 1037 C C C O 47 C 0 0 C 0 C NCTES 1038 THROUGH 1049 45 C C O 38 C 0 C 0 0 NCTES 1050 THROUGH 1061 43 (C 0 40 C 45 G C 0 42 0 NCTES 1C62 THRCUGH 1073 4C C 42 0 43 C C 38 0 С O 0

NCTES 42	T.	THRCUGH C 0 4		_	0	0	0	0	0	0
ACTES 3E	1 C 8 6 C	THRCUGH C 0			0	0	c	0	С	0
ACTES C	1C58 C	THRCUGH C 0	1109 C	_	0	O	0	0	0	0
ACTES 45	1110 C	THRCUGH C 0	1121 C		0	0	0	0	С	С
	1 1 2 2 C	THRCUGH C 0	1133 C	_	0	0	42	0	С	0
	1134 C	THRCUGH C 0	1145 0		0	0	43	0	С	С
NCTES C	1146 C	THRCUGH C 0 4			0	0	0	0	С	С
ACTES 52	1158 C	THRCUGH C 0	1169	_	O	0	C	0	С	o
ACTES C	1170 C	THRCUGH C C	1181	0	c	0	48	0	0	0
NCTES 47	1182	THRCUGH C C	1193 0		o	0	48	0	С	0
	1194 C	THRCUGH C C			c	0	38	0	0	0
	1206 C	THRCUGH C 0 4			43	0	45	0	С	С
	1218 C	THRCUGH C 0			0	J	43	0	С	0
NOTES C	1230 C	THRCUGH O C 4			О	С	43	0	С	С
	1242 C	THRCUGH C 0 -			50	0	49	0	С	С
	1254 C	THRCUGH C 0			0	С	o	0	С	С
_	1266 C	THRCUGH C C			0	0	45	0	С	С
	1278	THRCUGH 0 C			0	С	47	0	0	0

NCTES 47		THRO			C	٥	0	45	0	С	0
NCTES -1	1302 C		UGH 0 4		_	0	C	38	0	c	0
NCTES 42	1314 C			1325 40		o	3	С	0	0	o
NCTES 38	1326 C					0	C	С	٥	С	0
ACTES 0	1338 C			1349 C		0	С	c	0	0	0
NOTES 50	1350 C		C			0	0	c	0	С	0
ACTES C	1362 C			1373 C		0	0	С	0	0	0
NCTES 47	1374	THR(_	0	0	43	0	c	0
NTIFS	1386 C			1397 45		0	0	47	0	0	0
NC TES	1398 (1409 45		0	0	c	0	С	0
NCTES 43	1410 C	THRO C	_	1421 43		0	0	С	0	c	0
NCTES 78						40	О	0	0	45	c
NCTES 47	1434 C					0	0	45	0	С	0
ACTES 48	1446 C			1457 47		o	С	c	0	С	0
NCTES 45	1458 C			14 6 9 52		O	C	С	O	C	0
NNTES C	147C 0		O GH			0	0	5 <i>2</i>	0	c	0
NCTES 5C	1482 C			1493 48		0	0	47	0	C	0
NCTES 48	1494 C					50	0	49	0	С	0

NOTES 50	1506 C	THR C		1517 C	C	0	0	c	0	С	С
NCTES C	1518 C	THRC C		1529 C	_	0	0	O	0	0	0
NOTES 48	1530 C	THRC C	_	1541 C	_	C	С	52	0	С	0
NC TES	1542 C		UGH 0 4		_	0	0	O	0	0	0
NC TES 43	1554	THR C		1565 C	_	С	0	45	0	0	0
NCTES 47				1577 1		c	С	47	0	0	0
NCTES 45	1578 C 5				_	47	0	С	0	45	0
NCTES 47	1590 C	THRO	UGH O 5		_	0	0	0	0	С	0
NCTES 50	1602 C			1613 7		0	0	-1	0	c	0
NCTES 45	1614 C		UGH 0 4		_	c	0	0	0	0	0
NCTES 4C	1626	THRO	C C	1637 0	0	0	0	43	0	0	า
ACTES C	1638 0					0	0	c	0	0	0
SET 24	165C C					0	0	С	0	0	э
NCTES 4C	1662			1673 0		0	c	0	0	0	ລ
NCTES -1	1674 C					0	0	0	0	C	0
NC TES	1686					0	0	4 C	0	0	0
NCTES 38	1658 C					0	0	С	С	0	0
NC TES	1710 0					0	C	С	0	0	0

UNITS OF DATA PER CARD CHANGED TO 8

NCTES 50	1722 C				_	0	0
NOTES C				173° 52		0	С
NCTES 48	1738 C				_	0	0
NCTES 47	1746 C					50	0
NCTES 47	1754 C				ı C	0	0
NCTES C	1762 C		o -		_	0	0
NCTES 47	1770 C					n	0
NC TES	1778 C				5 C	0	C
NCTFS C	1786 C		GUGH 0 4	-	_	n	0
NCTES 38	1794				0	0	0
ACTES C	18C2	THRO	CUGH 0 !		C	0	0
NG TES	181C	THRE	CUGH O 4		_	47	0
NCTES 45	1818 C	_	_	_	5 C	0	c
NCTES 43	1826 C					0	c
NCTES 4C	1 E 3 4				0	43	0
NC 1E S 45	1842 C					c	С
NCTES 4C					7 C	c	0

ACTES -1	1858 C					48	C				
NETES 47		THR(1873 48		0	c				
NCTES -1	1874 C					45	c				
NCTES 49	1882 C	THRO	O 5	-	0	O	c				
NCTES 52	189C C					48	O				
NCTES 47	1898 C			1909		٥	o				
NCTES 45	1906 C		UGH 0			0	O				
NCTES G	1914 (UGH 0 4			0	0				
NGTES 44	1922 C		CUGH 0 4			45	0				
NCTES 47						44	С				
NCTES 45	1538 C			1949 0		0	o				
NCTES C	1946	THRO			3 0	n	С				
NCTE 1	1954		ITS (A T A	PFR	CARD	CHAN	IGED	T O	1
		UN	its (OF C	ATA	PER	CARD	CHAN	IGFD	το	12
NC 1ES 45	1555 C	THRO	C	1966		O	a	С	0	С	0
NC TES	1567 C	THR (1978 C		С	o	С	С	С	o
ACTES	1575 C		UGH 0	1990 C		0	С	С	0	С	0

NCTES 45	1551 C	THR CUGH C 0		C	0	0	0	0	0	0
	2003	THRCUGH O C	2014 0		0	0	С	0	С	0
NCTES C	2C15	THRCUGH C 0	2026 C	_	0	0	С	0	С	0
NCTES 45		THRCUGH C 0	2038 0	_	0	C	С	0	С	0
ACTES C	2C35 C	THRCUGH C 0	2050 0	_	0	0	0	0	С	0
	2C51 C	THRCUGH C C	2062 C	_	0	c	С	0	0	0
NCTES 50	2C63	THRCUGH C 0	2074 C	_	0	С	С	0	C	0
	2C75	THRCUGH O C	2C86 0		0	С	С	0	С	0
NCTES	2CE7 C	THRCUGH C O	2058 0	_	0	0	С	0	С	0
	2099 C	THRCUGH C C	2110 C		0	C	C	0	0	0
		THRCUGH C 0			0	С	0	0	0	c
NCIFS	2123	THRCUGH 0 0	2134	,	0	С	_	0	0	0
NCTES	2135	THROUGH C 0	2146	1	0				C	
_		THRCUGH			Ū	•		J		Ü
		C C			0	С	С	0	0	0
NCTES C	2155	THRCUGH C 0	2170	0	0	С	C	0	0	0
		THRCUGH O O			0	0	С	0	С	С
	21E3 C	THRCUGH C C			0	0	С	0	С	0
		THRCUGH C 0			0	С	С	0	0	0

	-	THRCUGH C 0			0	0	c	0	С	С
		THRCUGH C C		_	0	С	c	0	С	0
		THRCUGH O C			0	С	c	0	С	0
		THRCUGH C C			0	С	С	0	С	0
		THRCUGH C 0		_	0	С	c	0	С	0
		THRCUGH O C			0	0	0	0	О	0
		THRCUGH C C			0	С	С	0	c	0
NCTES	2291	THRCUGH	2302							
С	С	C 0	С	C	0	С	С	0	С	0
_		THROUGH O C			0	c	С	0	o	0
	2315 C	THRCUGH O C			0	О	С	0	С	0
	2327	THR CUGH			0	0	С	0	С	0
		THRCUGH C 0			0	С	0	0	С	c
NCTES -1	_	THRCUGH C C			0	С	С	0	С	o
4.C.T.F.F	22/2	TUDCUCH	2274							
		THRCUGH C C			0	0	C	0	С	С
		THRCUGH C C			0	0	O	0	С	r
NCTES C	2387 C	THRCUGH C C			c	c	С	0	С	С
		THRCUGH C 0			0	С	С	0	С	.
NC TF S		THR CUGH			0	С	С	0	С	С

NCTES -1	2423 C	THRCUGH C 0	2434 C		0	0	С	0	0	0
NCTES 40	2435 C	THRCUGH C C	2446 0	_	0	С	С	0	c	0
		THRCUGH C 0			0	С	С	0	С	0
NC TES 4C	2459 C	THRCUGH O O	2470 0		0	С	С	0	С	c
NCTES 43	2471 C	THRCUGH C C	248 <i>2</i> C		0	0	0	0	0	0
	2483 C	THRCUGH C C			0	0	0	0	С	0
	2495 C	THRCUGH C C	2506 C		0	С	С	0	С	С
	2507 C	THRCUGH C C	2518 0		0	С	С	0	С	0
NCTES C	2519 C	THRCUGH C C	2530 C		0	С	С	0	С	С
	2531 C	THRCUGH 0 0		_	0	С	C	0	С	С
	2543 C	THR CUGH			0	c	О	0	С	0
		THRCUGH C C			С	С	С	0	С	0
		THRCUGH C C			0	С	С	o	С	С
		THRCUGH C 0			0	C	С	0	С	0

UNITS OF DATA PER CARD CHANGED TO 8

NCTES 2591 THRCUGH 2598
-1 0 C C C C C C

NCTES 2595 THRCUGH 2606
C C C C C C C

NCTES 2607 THRCUGH 2614
C C O O C C C

NCTES C	2615 C	THRCUGH C 0	2622 0 0	0	С
NCTES C	2623 C	THRCUGH C O		0	C
NC TES		THREUGH C 0	2638 C C	c	С
NCTES C		THRCUGH C C	2646 0 C	0	С
NCTES C	2647 C	THREUGH 0 0	2654 C C	O	С
NC TES		THRCUGH C C		0	C
NCTES 38	2663 C	THRCUGH C C		0	0
NC TES	2 <i>6</i> 71 C	THRCUGH C 0	2678 C C	0	C
	2679 C	THRCUGH C C		0	0
NCTES 38	26E7 C	THRCUGH C C		0	0
NCTES -1	2655 C	THRCUGH O C		c	c
NC TES	2703 C	THRCUGH O C	2710 C C	0	С
NC TES	2711 C	THRCUGH O G	2718 C C	0	0
NCTES	2719 C	THRCUGH C C		0	0
NCTES 38	2727 C	THRCUGH C O	2734 C C	0	0
		THRCUGH C O	2 74 2 0 C	0	o
NCTES 43	2743 C	THRCUGH C 0		ာ	0
NCTES 42		THRCUGH C 0	_	່ າ	0

NCTES 2759 THRCUGH 2766 43 C C O O O 0 NCTES 2767 THRCUGH 2774 -1 C C 0 0 C C NCTES 2775 THRCUGH 2782 38 C C O C C C NCTES 2783 THRCUGH 2790 0 NCTES 2791 THROUGH 2798 4C C O O C C NCTES 2799 THRCUGH 2806 CC G 0 NCTES 28C7 THRCUGH 2814 38 C C O C C C NCTES 2815 THRCUGH 2822 \mathbf{c} \mathbf{c} \mathbf{c} \mathbf{o} \mathbf{o} \mathbf{c}) 0 NCTES 2823 THRCUGH 2824 -1 -99

THE FULLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

*** TYPE I LISTING ***

JOHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 51 SECONDS INTO EXECUTION.

PATTERN	NCTE	S	RELATED 1	rc n	NOTE	ES	TEST I	ENGTH
1 2	21 TO 29 TO	35 37		393 401	TO TO	40 7 409	12 12	3 3 3 3
3	35 TO	39		407	to	411	12	3
4	37 TC	41		409	TO	413	12	3
5	39 TO	45		503	TO	509	12	
6	39 10	45		1688	TO	1694	12	3 3 3
7	45 TO	55		417	TO	427	12	3
8	49 10	57		97	TO	105	12	3
9	49 TC	57		421	TO	429	12	3
10	49 TC	57		469	TO	477	12	3
11	55 TO	59		103	TO	107	12	3 3 3
12	55 TO	59		271	TO	275	12	3
13	55 TC	59		427		431	12	3
14	55 TO	59		475	TO	479	12	3 3 3 3
15	55 TO	59		£ 59	TO	863	12	3
16	57 TO	61		105	TO	109	12	3
17	57 TO	61		273	TO	277	12	3
18	57 10	61		429	TO	433	12	3
19	57 10	61		477	TO	481	12	3
20	81 TO	85		341	TO	345	12	3 3 3
21	83 TG	87		319	TO	323	12	
22	83 TO	87		335	TO	339	12	3 3 3
23	85 TO	89		321	TO	325	12	3
24	85 TC 85 TO	89		1210 1434	TO	1214	12 12	3
25 **** FOR	57 TO	89 105•	SFE		TO		ABOVE ***	
**** FOR	103 TO	107.	SE		TO	59	ABOVE ***	
**** FCR	105 TO	109.	SF		TO	61	ABOVE ***	
26	163 10	167	3	917	TO	921	12	3
27	169 TO	171		173				3
**** FCR	173 TO	175.	SEE				AROVE ***	
28	175 TO	178		667		670	12	3
29	177 10	179		669		671	12	3
30	209 TO	217		1478	TO	1486	12	3 3
21	267 TO	273		807	TO	813	12	3
32	267 TO	273		855	TO	861	12	3
**** FOR	271 TC	275.			TO		ABOVE ***	
**** FOR	273 TO	277.	SEE		TO	61	ABOVE ***	
33	2 57 TO	3C1		501		505	12	3
34	257 TC	301		1686	TO	1690	12	3
35	2 57 TO	3C1		1862		1866	12	3
**** FCR	319 TO	323.	SE	83	TO	e7	ABOVE ***	k

TEST LENGTH NCTES RELATED TO NOTES PATTERN **** FCR 321 TC 325. SEE 85 TO 89 ABOVE **** 339. **** FCR 335 TG SEE 83 TO 87 ABOVE **** 337 TO 3 341 455 TO 459 12 36 647 TO 3 37 337 TO 341 651 12 3 337 TO 783 TO 787 12 38 341 237 TC 949 3 39 341 945 TO 12 85 ABOVE **** **** FOR 341 TO 345. SEE 81 TO 345 TO 348 599 TO 602 12 3 40 381 TO 621 TO 631 12 3 41 351 393 TC 4C7. SEE 21 TO 35 ABGVE **** **** FCR **** FCR 401 TO 409. 29 TO 37 ABOVE **** SEE 35 TO 39 ABOVE **** **** FOR 407 TC 411. SEF 41 ABOVE *** 37 TO **** FOR 409 TO 413. SEE 1864 TO 187C 12 411 TC 3 417 42 55 ABOVE **** **** FOR 417 TO 427. SEE 45 TO SEE 57 ABOVE **** **** FOR 421 TO 429. 49 TO 427 TO **** FOR 431. SEE 55 TO 59 ABOVE **** **** FGR 429 TO SEE 57 TO 61 ABOVE **** 433. 589 TO 595 43 441 TO 447 12 3 947 3 44 453 TO 457 943 TO 12 453 TO 1432 TO 1436 3 457 12 45 **** FCR 455 TO 459. 337 TO 341 ABOVE **** SEE 457 TG 649 TO 653 46 461 12 3 459 10 465 863 TO 869 12 3 47 49 TO 57 AROVE **** **** FOR 469 TC 477. SEF 55 TO 59 ABOVE **** **** FCR 475 TO 479. SEE 61 ABOVE **** 57 TO **** FOR 477 TO 481. SFF 709 TO 713 497 TC 501 12 3 48 459 TO 503 1860 TO 1864 12 3 49 **** FCR 501 TO SFF 297 TD 301 ABOVE **** 505. 45 ABOVE **** **** FCR 503 TO SEE 39 TO 509. 50 1436 TO 1442 3 563 TC 569 12 1866 TO 1876 3 51 573 TO 583 12 589 TG 441 TO 447 ABOVE **** **** FOR SEF 595. 345 TO 348 ABOVE **** **** FOR 559 TO SEE 602. 3 52 607 TO 611 715 TO 719 12 811 TO 3 53 607 10 815 12 611 955 TO 954 12 3 54 **EC7 TO** 611 609 TO 717 TO 612 720 12 3 55 609 TO 813 TO 816 3 56 612 12 609 TC 557 TO 96 C 12 57 612 621 TO 381 TO 391 ABOVE *** *** FCR 631. SEE 341 ABOVE **** **** FOR 647 TC 651. SEE 337 TO 649 TO 457 TO 461 ABOVE **** **** FCR 653. SEE 667 TC 175 TO 178 ABOVE **** **** FCR 67C. SEE 179 ABOVE **** **** FCR 669 TG SEE 177 TO 671, 949 TO 953 58 685 TO 689 12 3 3 59 689 TC 695 1746 TO 1752 12 3 1584 TO 1590 60 691 TC 697 12 **E** 1 7C1 TO 707 1834 TO 1840 12 3 **** FOR

SEE

497 10

501 ABUVE ****

709 TC

713.

PATTERN	N	ICTES	1	RELATED TO	3 1	OTE	S	TEST	LENGTH
**** FOR	715	TO T	719.	SEE	607	TO	611	ABOVE ***	**
**** FOR	717	TO T	720.	SEF	609	TO	612	ABOVE **	**
62	781	TO T	785		1752	TO	1756	12	3
**** FCR	783	10	787.	SEE	337	TO	341	ABOVE **	**
63	EC5	TO 8	311		853	TO	859	12	3
64	805	TO 8	311		1582	TO	1588	12	3 3
65	805	10	311		1890	TO	1896	12	3
**** FOR	867	TO 8	313.	SEE	267	TO	273	ABOVE **	**
**** FCR	811	TO 8	315.	SEE	607	TO	611	ABOVE **	**
**** FCR	813	TO 8	816.	SEE	609	TO	612	ABOVE **	**
66	849	TO E	253		947	TO	951	12	3
**** FOR	853	TO 8	359.	SEE	805	TO	811	ABOVE ***	**
**** FOR	٤55	TO 8	361.	SEE	267	TO	273	ABOVE **	**
**** FOR	859	TC 8	363.	SEE	55	TO	59	ABOVE ***	**
4*** FOR	863	TO 8	869.	SEE	459	TO	465	ABOVE ***	**
**** FOR	517	TO 9	21.	SEE	163	TO	167	ABOVE ***	**
**** FOR	943	TO 9	347.	SEE	453	TO	457	ABOVE ***	**
**** FOR	945	TO S	949.	SEE	337	TO	341	ABOVE ***	**
44** FOR	947	10 9	351.	SEE	849	TO	853	ABOVE ***	**
**** FOR	949	TO S	553.	SEE	685	10	689	AROVE ***	**
**** FOR	955	TO 9	559.	SEE	607	TO	611	ABOVE **	**
**** FCR	957	TO 9	60.	SEE	609	TO	612	ABOVE ***	**
67	1C70	TO 10	78		1310	TO	1318	12	3 3
68	1C74	TO 10	86		1314	TO	1326	12	3
**** FOR	1210	TO 12	214.	SEE	85	TO	89	ABOVE **	**
69	1274	TC 12	286		1562	TO	1574	12	3
**** FOR	1310	TO 13	218.	SEE	1070	TO	1078	ABOVE **	**
**** FCR	1314	TO 13	326.	SEF	1074	TO	1086	ABOVE ***	**
**** FOR	1432	TO 14	436.	SEE	453	TO	457	ABOVE ***	**
**** FOR	1434	TO 14	438.	SEE	85	TO	89	ABOVE ***	**
**** FCR	1436	TC 14	442.	SEE	563	TO	569	AROVE ***	**
**** FOR	1478	TO 14	486.	SEF	209	TO	217	ABOVE ***	**
**** FOR	1562	TO 15	574.	SEE	1274	TO	1286	ABOVE **	**
**** FCR	1582	TO 15	.888	SEE	805	TO	811	ABOVE ***	**
**** FCR	1584	TC 15	590.	SEE	691	TO	697	ABOVE ***	**
**** FOR	1686	TO 16	590.	SEE	297	TO	301	ABOVE ***	**
**** FOR	1688	TO 16	594.	SEF	39	10	45	ABOVE ***	**
**** FCR	1746	TO 17	752.	SEE	689	TO	695	ABOVE ***	**
**** FCR	1752	TO 17	756.	SEF	781	TO	785	ABOVE ***	**
**** FCR	1834	TO 18	340.	SEE	701	TO		ABOVE ***	
**** FOR	1860	TO 18	64.	SEE	499	TO		ABOVE ***	
**** FOR	1862	TO 18	366.	SFE	297	TO	301	ABOVE ***	**
**** FOR	1864	TC 18	370.	SFE	411	TO	417	ABOVE ***	**
**** FGR	1866	TO 18	376.	SEE	573	TO	583	ABOVE ***	**
**** FOR	1890	TO 18	396•	SEE	805	TO	811	ABOVE ***	**

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 1068 SECONDS INTO EXECUTION.

PATTERN	NCTFS	RE	LATED TO	3 N	OTE	S	TEST (LENGTH
7C 71	21 TC 29 TO	37 39		393 401	TO TO	409 411	12 12	4
72	35 TO	41		407	TO	413	12	4
13	45 TO	57		417	TO	429	12	4
74	49 TC	59		97	TO	107	12	4
75	49 TC	59		421	TO	431	12	4
76	49 10	59		469	TO	479	12	4
77	55 TO	61		103	TO	109	12	4
78	55 TO	61		271	TO	277	12	4
79 8C	55 TC 55 TO	61 61		427 475	TO TO	433 481	12 12	4
8 1	83 TO	89		319	10	325	12	4
**** FOR		107.	SEE	49	TO	59	ABOVE ***	,
**** FOR		109.	SEE	55	TO	61	ABOVE ***	ķ
82		179		667	TO	671	12	4
83		275		855	TO	863	12	4
**** FOR	271 TC 2	277.	SEE	55	TO	61	ABOVE ***	F
**** FOR		325.	SEE	83	TO	89	ABOVE ***	-
**** FCR		4C9.	SEF	21	TO	37	ABOVE ***	
**** FCR		411.	SEE	29	TO	39	ABOVE ***	
**** FCR		413.	SEE	35	TO	41	ABOVE ***	
**** FOR		429. 431.	SEE SEE	45 49	TO TO	57 59	ABOVE ***	r k
**** FOR		433.	SEF	55	T 0	61	ABOVE ***	* *
£4		459	321	943	TO	949	12	4
85		461		647	TO	653	12	4
**** FOR		479.	SEF	49	TO	59	ABOVE ***	¢
**** FOR	475 TO	481.	SEF	55	TO	61	ABOVE ***	k
86		5C5		1860	TO	1866	12	4
87		509		1686		1694	12	4
8 8		512			TO	720	12	4
£9		512		811	10	816	12	4
90 91		51 <i>2</i> 512			TO TO	960 7 20	12 12	4 4
91 92		512 512		811	TO	816	12	4
92 93		512			TO	960	12	4
**** FOR		653.	SEF	455	TO	461	ABOVE ***	
**** FCR		653.	SEE		TO	461	ABOVE ***	¢
**** FOR		671.	SEE	175	TO		ABOVE ***	k
**** FOR		720.	SFE	607	TO		ABOVE ***	
**** FOR		720.	SEE	607	TO		AROVE ***	
54		813	_	853	TC	861	12	4
*** FCR		816.	SEF	607	TO		ABOVE ***	
**** FCR	£11 TO	816.	SEE	607	TC	612	ABOVE ***	₹

PATTERN	NCT	FS	RELATED TO) NOT	ES	TEST	LENGTH
**** FGR	853 TO	861.	SEE	805 TN	813	ABOVE *	***
**** FOR	855 TO	863.	SEE	267 TO	275	ABOVE *	***
**** FCR	943 TC	949.	SEE	453 TO	459	ABOVE *	***
**** FCR	555 10	960.	SEE	607 TO	612	ABOVE *	***
**** FCR	955 TO	960.	SEE	607 TO	612	ABOVE *	***
9	1070 TO	1086		1310 TO	1326	12	4
**** FCR	1310 TC	1326.	SEF	1C70 TO	1086	ABOVE *	***
**** FCR	1686 TO	1694.	SEE	501 TO	509	ABOVE *	***
**** FOR	1686 TC	1694.	SEE	501 TO	509	ABOVE *	***
**** FCF	1860 TO	1866.	SEE	499 10	505	ABOVE *	***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 1251 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
96	21 TC 3	9	393 TO 411	12	5
97	29 TO 4	1	401 TO 413	12	5
5 8	45 TO 5	9	417 TO 431	12	5
59	49 TO 6	1	97 TO 109	12	5
100	49 TC 6	1	421 TO 433	12	5
101	49 TO 6	1	465 TO 481	12	5
**** FOR	97 TO 10	9. SEE	49 TO 61	ABOVE ***	k
**** FCR	393 TO 41	1. SEE	21 TO 39	ABOVE ***	¢
**** FOP	401 TO 41	3∙ SEE	29 TO 41	ABOVE ***	k
**** FOR	417 TC 43	1. SEF	45 TO 59	ABOVE ***	k
**** FCR	421 TO 43	3. SEF	49 TO 61	ABOVE ***	k
**** FOR	469 TO 48	1. SEF	49 TO 61	ABOVE ***	k

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 1474 SECONDS INTO EXECUTION.

PATTERN	NCTES	REL	ATED TC	NOTE	S	TEST	LENGTH
102	21 TC	41	3	393 TO	413	12	6
103	45 TC	61	4	17 TO	433	12	6
**** FOR	393 TC	413.	SEE	21 TO	41	ABOVE ***	:
**** FCR	417 TC	433.	SEE	45 TO	61	AROVE ***	: :

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 1683 SECONDS INTO EXECUTION.

PATTERN NCTES RELATED TC NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL CF 103 PATTERNS LOCATED.

*** TYPE II LISTING ***

JOHN DUNSTABLE ISORHYTHMIC MOTET VENI SANCTE SPIRITUS EXACT RHYTHM WITH EXACT CONTOUR (CRIGINAL)

	LOCATI CF FIR OCCURRE	RST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
CRIGINAL FATTERN	45 TO	61	2	6
SLEPATTERN	45 TO	61	4	5
SUPPÄTTERN	55 TO	61	5	4
SLEPATTERN	45 TO	59	4	4
SLEPATTERN	57 TO	61	5	3
SUPPATTERN	55 TO	59	6	
SUPPATTERN	45 TO	57	4	3
CRIGINAL PATTERN	21 TO	41	2	6

**** TEST 12 COMPLETED AT 1720 SECONDS INTO EXECUTION ****

For the Test-O analysis of the Hindemith fugue, the rhythm of the top voice was altered slightly in measures 11 and 76 to allow for a limitation in the encoding process. Since rhythm was not analyzed in Test O, this alteration did not affect the results of the analysis. In order to reduce the size of this appendix, the list showing the computer-assigned reference numbers for Test O has been omitted.

HINDEMITH LUDIS TONALIS FUGA NINA IN B-FLAT. COMPLETE

ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 OCTAVE MINOR 9 MINOR 10 MAJOR 10 PERF. 11 CCMP. TT PERF. 12 MINOR 13 MAJOR 13 MINOR 14 MAJOR 14 TWO OCT. UNISCN INTERVALS EXCEEDING TWO	193 238 129 43 69 7 14 6 7 25 7 17 3 2 4 2 2 0 3 1 0 7 1 5 69 6	22.44 27.67 15.00 5.00 8.02 0.81 1.63 0.70 0.81 2.91 0.81 1.98 0.35 0.23 0.23 0.23 0.23 0.00 0.35 0.12 0.00 0.81 0.12 0.58 8.02 0.70
CCTAVES		

860 INTERVALS COUNTED

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT. COMPLETE

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 UCTAVE MINOR 9 MAJOR 9 MINOR 10 PERF. 11 UCMP. TT PERF. 12 MINOR 13 MAJOR 13 MAJOR 13 MAJOR 14 MAJOR 14 IWO OCT. INTERVALS EXCEEDING TWO	80 120 60 15 40 5 4 4 3 12 0 5 2 2 2 3 2 1 0 3 1 0 3 1	21.45 32.17 16.09 4.02 10.72 1.34 1.07 0.80 3.22 0.0 1.34 0.54 0.54 0.54 0.80 0.54 0.27 0.0 0.80 0.27 0.0 1.07 0.0 0.54 1.34
CCTAVES		

373 ASCENDING INTERVALS COUNTED

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, COMPLETE

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINCR 2 MAJCR 3 MAJCR 3 PERF. 4 TRITONE PERF. 5 MINGR 6 MAJCR 6 MINCR 7 MAJOR 7 JCTAVE MINCR 9 MAJCR 9 MINCF 10 MAJCR 9 MINCF 10 MAJCR 11 CMP. TT PERF. 12 MINCR 13 MAJCR 13 MINCR 14 TWO OCT. INTERVALS EXCEEDING TWO	113 118 69 28 29 2 10 2 4 13 7 12 1 0 1 0 0 1 0 0 0 0 0 3 1 3 1	27.03 28.23 16.51 6.70 6.94 0.48 2.39 0.48 0.96 3.11 1.67 2.87 0.24 0.0 0.24 0.0 0.24 0.0 0.72 0.24 0.72 0.24
OCTAVE		

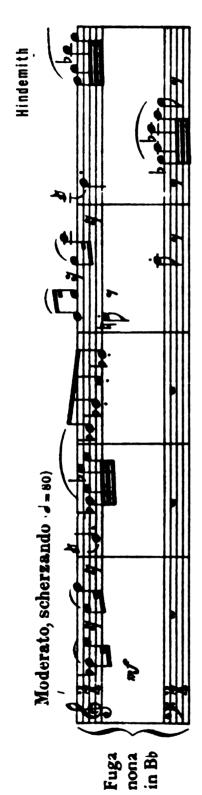
418 DESCENDING INTERVALS COUNTED

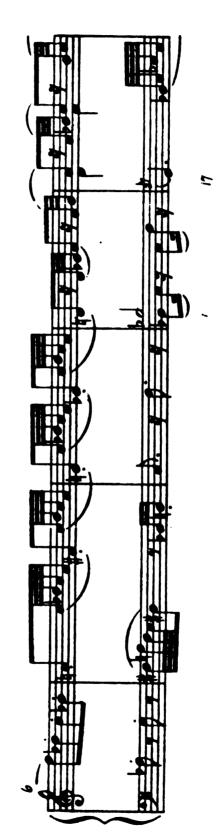
**** TEST O COMPLETED AT 61 SECONDS INTO EXECUTION ****

The following score shows the computer-assigned reference numbers for the analyses of the bottom-sounding voice of the Hindemith fugue.

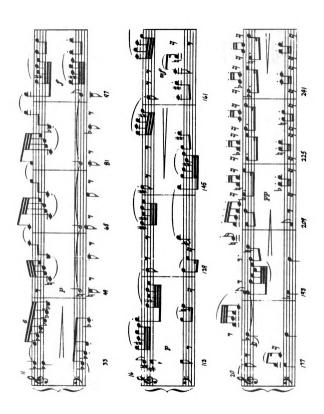
Although all three voices are shown in the following score, only the bottom-sounding voice was encoded and analyzed for these tests.

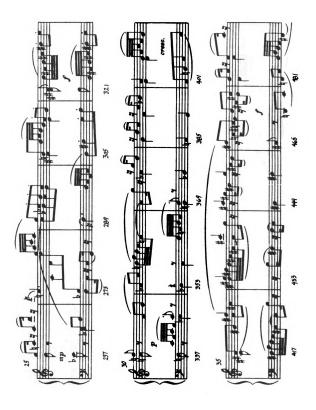
Ludis Tonalis

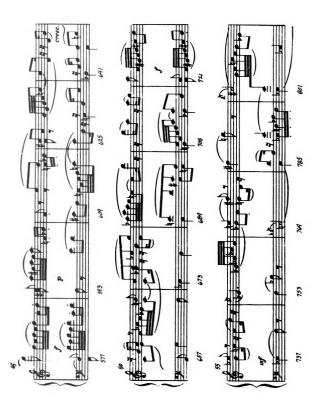


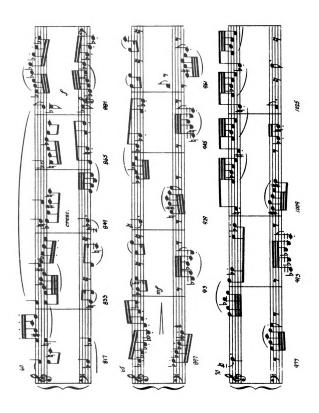


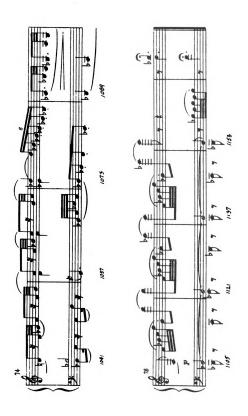
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******* MUSIC MELODIC PATTERN ANALYSIS *********

TEST REQUESTED 2
UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES 17 THROUGH 16 32 33 THROUGH 48 36 C 0 0 32 0 0 0 31 0 0 0 3 36 38 41 38 NOTES 33 THROUGH 48 36 C 0 0 32 0 0 0 31 0 0 0 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
NOTES 33 THROUGH 48 36 C 0 0 32 0 0 0 31 0 0 0 29 0 0 0 0 0 0 0 0 0	NOTES	36	THR(O :	16 38 0	-1	С	38	c	0	Э	43	0	-1	0
36 C 0 0 32 0 0 0 31 0 0 0 29 0 0 0 0 NOTES	NOTES					0	'n	o	ĵ	0	Э	36	38	41	38
28 C 0 0 -1 0 0 0 30 0 0 0 1 -1 0 0 0 0 NOTES 65 THROUGH 80 33 0 0 0 -1 0 0 0 31 0 0 0 0 0 0 NOTES 81 THROUGH 96 30 C 0 0 -1 0 0 0 29 0 0 0 0 -1 0 0 0 NOTES 97 THROUGH 112 28 0 0 0 52 51 52 51 52 0 0 0 52 0 0 0 NOTES 113 THROUGH 128 49 C 0 0 -1 0 0 0 49 0 0 0 47 0 -1 0 NOTES 129 THROUGH 144 47 49 0 0 0 0 53 0 0 0 NOTES 145 THROUGH 160 0 0 57 0 0 0 53 0 0 0 NOTES 161 THROUGH 176 54 C 0 0 56 0 0 0 57 0 0 0 0 0 0 0 NOTES 177 THROUGH 192 45 0 0 0 0 0 0 0 0 0 0 0	NCTES					0	0	31	0	0	0	29	0	0	c
33 0 0 0 -1 0 0 3 31 0 0 0 -1 0 0 0 NOTES 81 THROUGH 96 30 C 0 0 -1 0 0 0 29 0 0 0 0 -1 0 0 0 NOTES 97 THROUGH 112 28 0 0 0 52 51 52 51 52 0 0 52 0 0 0 NOTES 113 THPOUGH 128 49 C 0 0 -1 0 0 3 49 0 0 0 47 0 -1 0 NOTES 129 THROUGH 144 47 C 0 0 42 0 -1 3 42 52 0 0 0 0 0 0 NOTES 145 THROUGH 160 0 C 0 0 49 47 44 47 49 0 0 5 53 0 0 0 NOTES 161 THROUGH 176 54 C 0 0 56 0 0 0 57 0 0 0 0 0 0 NOTES 177 THROUGH 192 45 0 0 0 0 0 0 43 0 0 0 0 0 0 0 0	NOTES					0	၁	30	0	0	3	-1	0	0	o
NOTES 97 THRCUGH 112 28 0 0 0 52 51 52 0 0 0 52 0 0 0 0 0 0 0 0 0	NOTES					0	J	31	o	0)	-1	0	0	o
28 0 0 0 52 51 52 51 52 0 0 0 52 0 0 0 0 NOTES 113 THROUGH 128 49 0 0 0 47 0 -1 0 NOTES 129 THROUGH 144 47 49 52 0 0 0 0 0 0 0 NOTES 145 THROUGH 160 0 6 7 49 47 44 47 49 0 0 0 53 0 0 0 NOTES 161 THROUGH 176 54 C 0 0 56 0 0 0 57 0 0 0 0 0 0 0 NOTES 177 THROUGH 192 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NGTES	81 30 (THRO	OUGH	96 -1 0	0	0	29	0	0	Э	-1	0	0	o
HOTES 129 THROUGH 144 47 49 0 0 0 2 47 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES						51	52	0	0	0	52	0	0	0
47 C 0 0 42 0 -1 0 42 52 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES	113 49 (THP(OUGH	128 -1 0	0)	49	0	0	0	47	0	-1	0
NOTES 145 THROUGH 160 0 0 0 53 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							o	42	52	0	0	0	0	0	0
NOTES 161 THROUGH 176 54 C 0 0 56 0 0 0 57 0 0 0 1 -1 0 0 0 10TES 177 THROUGH 192 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		145	THR	DUGH	160										
NOTES 177 THROUGH 192 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOTES	161	THR	DUGH	176										
NOTES 193 THROUGH 208	HOTES	177	THR	DUGH	192										
	NOTES	193	THR	DUGH	208										

NOTES	209 38			0	0	0	0	51	0	51	0	-1	0
NOTES		OUGH O		-1	0	0	0	49	э	49	0	-1	0
NOTES		OUGH O		-1	0	0	0	52	0	52	0	0	0
NOTES	25 7 53			0	0	41	0	0	0	0	0	0	0
NOTES	273 40			-1	0	3.8	0	0	0	33	0	-1	0
NOTES	28 9 33 4			0	0	0	0	0	3	40	38	35	38
ADIES	305 40			0	0	45	0	0	o	47	0	0	0
NOTES	321 49			37	39	41	0	0	Э	42	0	0	0
NOTES	33 7 43	-		0	0	41	0	0	כ	0	0	0	0
NOTES	353 39			0	0	38	0	0	o	0	0	0	0
NOTES	369 3 7			0	0	36	0	0	Э	0	0	0	0
NOTES	3E5 35			0	0	33	0	0	2	0	0	0	0
NOTES	401 35			0	0	38	0	0	0	42	0	0	0
NOTES	417 44 4			0	0	0	0	0	0	49	0	-1	0
NOTES		OUGH 0		0	0	-1	0	44	0	42	0	û	0
NCTES	449 41			0	o	44	o	0	o	0	0	0	c
VOTES	465 39			0	0	28	o	0	0	30	0	0	0
NOTES	481 31			0	၁	37	40	37	35	3 <i>2</i>	0	0	0

NOTES				512 2 0	-1	0	0	0	42	0	37	0	0	0
NCTES	513 -1 0				0	0	-1	0	33	0	38	0	0	0
NOTES	529 31 0	THR C	UGH 0 -	544 ·1 0	0	0	33	0	0	0	-1	0	0	0
NOTES	545 3 6 0				0	0	34	0	0	э	-1	0	0	Э
NCTES	561 33 0				0	0	32	0	0	0	-1	0	0	0
NOTES	577 31 C	THR C	0 5	592 55 54	55	54	55	0	0	3	50	0	52	0
NOTES	593 47 0				0	0	54	o	0	0	52	0	0	0
NOTES	609 51 0					0	45	42	45	47	50	0	0	0
NCTES				640 0 0	-1	0	38	0	0	Э	0	0	0	၁
NOTES	641 36 C				0	э	35	0	0	၁	0	0	0	Э
NOTES	65 7 33 0				0	o	0	0	0	3	43	0	0	0
NOTES	673 41 0				0	0	40	0	0	3	0	0	0	0
NOTES	689 38 C		UGH 0	704 0 0	0	0	42	0	0	0	38	0	0	0
NOTES	705 37 C				0	0	36	0	0	Э	0	0	0	Э
NCTES	721 35 0		-		0	0	0	0	0)	0	0	0	0
NOTES	737 41 0				0	0	43	0	0	0	-1	0	0	0
NOTES	753 43 C				0	э	48	0	0	0	-1	0	0	0
NOTES	769 48 38			784 0 0	0	0	0	0	0	0	0	0	0	0

NOTES	785 0 C	- - .	6H 800		0	41	0	43	Э	46	0	43	0
NOTES			6H 816		0	37	0	0	Э	0	0	0	0
NOTES			6H 832		0	34	0	0	Э	0	0	0	o
NOTES			31 C		0	31	0	0	0	26	0	-1	0
NOTES			H 864		9	0	0	0	Э	33	31	28	31
NOTES			H 880		0	38	0	0	0	40	0	0	0
NOTES			H 896		58	60	0	56	0	54	0	49	0
NOTES			39 0		Э	-1	0	0	٥	0	0	0	0
NOTES			6H 928 9 2 4 26		26	24	0	0	Э	-1	0	o	0
NOTES			H 944) 49 51		51	49	0	0	Э	-1	0	0	0
NOTES		• • • •	H 960 23 25		25	23	0	0	c	-1	0	0	0
NCTES	_		6H 976 30 32		32	30	0	0	Э	-1	0	0	0
NOTES			6H 992) 45 47	-	47	45	o	0	2	-1	0	0	0
NCTES			H 1008		24	22	0	0	Э	-1	0	0	0
NOTES			H 1024		0	-1	0	0	0	36	0	37	0
NOTES			H 1040		0	43	0	0	Э	0	0	-1	G
NOTES			H 1056		0	38	0	0	Э	43	0	-1	0
NOTES	1057 43 33		6H 1072		0	0	0	0	Э	36	38	41	38

ŅOTES	1073 T 36 C		1088 32 0	0	0 3	1 0	0	0 2	9 0	0	0
NOTES	1089 T 27 0	HROUGH 0 0	1104 0 0	0	0 2	5 0	0	0	0 0	0	0
NOTES	1105 T 24 C		1120 -1 0	0) 2	6 0	0	o -	1 0	0	0
NOTES	1121 T 29 0		1136 -1 0	0	0 2	7 0	0	0 -	1 0	0	0
NOTES	1137 T 26 C		1152 -1 0	0	0 2	5 0	0	o -	1 0	0	0
NOTES	1153 T 24 0		1168 -1 0	0	0	0 0	0	o (0 0	O	Э
NOTES	1165 T	HROUGH 0 0	1184 0 0	0	0 5	5 0	0	o	0 э	0	0
	1185 T -99	HR OUGH	1185								

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

ASCENDING AND DESCENDING INTERVALS* (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 3 MAJOR 3 MAJOR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 OCTAVE MINOR 9 MINOR 10 MAJOR 10 PERF. 11 COMP. TT PERF. 12 MINOR 13 MAJOR 13 MAJOR 14 MAJOR 14 TWO OCT. JNISON INTERVALS EXCEEDING TWO	54 79 49 14 15 1 4 0 0 9 2 5 1 0 1 0 0 0 0 0 0 0 0 1 1 2 2 3 3	20.45 29.92 18.56 5.30 5.68 0.38 1.52 0.0 0.0 3.41 0.76 1.89 0.38 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 1.1 1
CCTAVES		

264 INTERVALS COUNTED

^{*} INCLUDING UNISONS

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

ASCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL OCCURRENCES	PERCENTAGE OF OCCURRENCE
MINOR 2 MAJOR 2 MINCR 3 MAJCR 3 PERF. 4 TRITONE PERF. 5 MINOR 6 MAJOR 6 MINOR 7 MAJOR 7 OCTAVE MINCR 9 MAJCR 9 MAJCR 9 MAJCR 9 MAJCR 9 MAJCR 10 PERF. 11 COMP. TT PERF. 12 MINOR 13 MAJOR 13 MINOR 14 MAJOR 14 THO OCT. INTERVALS EXCEEDING TWO	20 35 24 6 5 1 2 0 0 5 0 2 1 0 0 0 0 0 0 0 0	18.69 32.71 22.43 5.61 4.67 0.93 1.87 0.0 1.87 0.93 0.0 0.93 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 87 1.87 1.87
OCTAVES		

107 ASCENDING INTERVALS COUNTED

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

DESCENDING INTERVALS (INCLUDING ENHARMONIC EQUIVALENTS)

	TOTAL	PERCENTAGE
	OCCURRENCES	OF OCCURRENCE
MINOR 2	34	25.37
MAJOR 2	44	32.84
AINOR 3	25	18.66
MAJOR 3	8	5.97
PERF. 4	10	7.46
TRITONE	0	0.0
PERF. 5	2	1.49
MINOR 6	0	0.0
MAJOR 6	0	0.0
MINCR 7	4	2.99
MAJCR 7	2	1.49
JCTAVE	3	2.24
MINOR 9	0	0.0
MAJOR 9	0	0.0
MINOR 10	0	0.0
MAJOR 10	0	0.0
PERF. 11	0	0.0
JOMP. TT	0	9.0
PERF. 12	0	0. 0
MINDR 13	0	0.0
MAJOR 13	0	0.0
MINOR 14	0	0.0
MAJOR 14	1	0.75
TWO OCT.	0	0.0
INTERVALS	1	0.75
EXCEEDING TWO		
OCTAVES		

134 DESCENDING INTERVALS COUNTED

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 38 SECONDS INTO EXECUTION.

1 2 3 4 5 6 7	1 TO 9 1 TO 9 1 TO 9 5 TO 13 5 TO 13 9 TO 17 9 TO 17 13 TO 18 13 TO 18 17 TO 29	245 TO 253 737 TO 753 1041 TO 1049 745 TO 761 1045 TO 1053 753 TO 769 1049 TO 1057 761 TO 770 1053 TO 1058	2 2 2 2 2 2 2 2 2	3 3 3 3 3
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 31 32 33 34 35 36	17 TQ 29 18 TO 30 29 TO 31 30 TO 32	769 TO 793 1057 TO 1069 151 TO 153 303 TO 305 618 TO 620 770 TO 795 863 TO 865 1058 TO 1070 49 TO 65 413 TO 418 485 TO 490 529 TO 545 619 TO 621 793 TO 797 917 TO 919 933 TO 935 949 TO 951 965 TO 967 981 TO 983 997 TO 999 1069 TO 1071 1105 TO 1121 417 TO 419 489 TO 491 795 TO 799 918 TO 920 934 TO 936 950 TO 952	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
38 39 40 41	30 TO 32 30 TO 32 30 TO 32 30 TO 32 30 TO 32	966 TO 968 982 TO 984 998 TO 1000 1009 TO 1011 1070 TO 1072	2 2 2 2 2	3 3 3 3 3

PATTERN	NOTES	RELATED T	O NOTES	TEST LENGT	ГН
43	21 70 22		120 70 150	2 2	
43 44	31 TO 33 31 TO 33		138 TO 150 290 TO 302	2 3 2 3 2 3	
45	31 TO 33		418 TO 420	2 3	
46	31 TO 33		490 TO 492		
47	31 TO 33		797 TO 801	2 3 2 3 2 3	
48	31 TO 33		850 TD 862	2 3	
49	31 TO 33		919 TO 921	2 3 2 3	
50	31 TO 33		935 TJ 937	2 3	
51	31 TO 33		951 TO 953	2 3 2 3 2 3 2 3	
52 53	31 TO 33		967 TD 969	2 3	
53 54	31 TO 33		983 TO 985 999 TO 1001	2 3	
54 55	31 TO 33 31 TO 33		999 TO 1001 1010 TO 1012		
56	31 TO 33		1071 TO 1073	2 3 2 3	
57	32 TO 37		799 TO 809	2 3	
58	32 TO 37		1072 TO 1077	2 3	
59	33 TO 41		697 TO 705	2 3 2 3 2 3 2 3 2 3	
60	33 TO 41		801 TO 817	2 3	
61	33 TO 41		1073 TO 1081		
62	37 TO 45		193 TO 209	2 3	
63	37 TO 45		265 TO 277	2 3 2 3 2 3 2 3 2 3 2 3	
64	37 TO 45		377 TO 393	2 3 2 3 2 3	
65 66	37 TO 45		641 TO 657 673 TO 689	2 3	
67	37 TO 45		809 TO 825	2 3	
68	37 TO 45		825 TO 837		
69	37 TO 45		1077 TO 1085	2 3 2 3 2 3 2 3 2 3	
70	41 TO 49		65 TO 81	2 3	
71	41 TO 49		185 TO 201	2 3	
72	41 TO 49		345 TO 361		
7 3	41 TO 49		443 TO 449	2 3	
74	41 TO 49		545 TO 561	2 3	
75	41 TO 49		601 TO 609	2 3	
76	41 TO 49		633 TO 649	2 3 3	
77 78	41 TO 49		669 TO 681 817 TO 833	2 3 2 3 2 3 2 3 2 3 2 3	
76 79	41 TO 49		1011 70 1013	2 3 2 3 2 3 2 3	
ėó	41 10 49		1089 TO 1105	2 3	
81	41 TO 49		1121 TO 1137	2 3	
82	45 TO 57		1097 TO 1113	2 3	
**** FOR	49 TO 65			ABOVE ****	
83	57 TO 73		537 TO 553	2 3 2 3	
84	57 TO 73		1113 TO 1129		
**** FOR	65 TO 81			ABOVE ****	
85 86	73 TO 89		353 TO 369 361 TO 377	2 3 2 3	
87	73 TO 89		369 TO 385	2 3 2 3 2 3	
88	73 TO 89		553 TO 569	2 3 2 3	
89	73 TO 89		561 TO 577	2 3	
90	73 TO 89		701 TO 713	2 3	
91	73 TO 89	•	705 TO 721	2 3	

PATTERN	NOTES	RELATED T	O NOTES	TEST LENG	ТН
92 93	73 TO	39 39	1129 TO 1145 1137 TO 1153	3 2 3	
**** FOR		97, SEE	73 TO 89		
94 65		01	569 TO 531		
95 96		02 03	577 TO 582		
97)3	103 TO 105	5 2 3	
98		03	581 TO 583	2 3 3 2 3	
99		3	583 TO 589	5 2 3	
100		04	582 TO 584		
**** FOR		SEE	101 TO 103		
101		9	221 TO 229		
102	104 TO 1	9	237 TO 245		
103	105 TO 1	13	227 TO 239	2 3	
104		21	229 TO 237	2 3	
105		25	437 TO 445	2 3 3 2 3 2 3 . 2 3	
106		25	509 TO 517	2 3	
107		29	273 TO 281	. 2 3	
1 C8		29	83,3 TO 841	. 2 3	
109		33	277 TO 285		
110		33	429 TO 437	2 3	
111 112		33 3 3	501 TO 509 837 TO 845		
112		37	837 TO 845 281 TO 289	2 3	
114		37	435 TO 443	2 2	
115		37	507 TO 519	2 3 3 2 3 5 2 3	
116		37	841 TO 849		
117		38	285 TO 290	2 3 2 3	
118		38	845 TO 850	2 3	
119		49	289 TO 301	2 3 . 2 3 . 2 3	
120	137 TO 1	49	849 TO 861	. 2 3	
**** FOR		see	31 TO 33	3 ABOVE ****	
121		51	301 TO 303		
122		51	419 TO 421	. 2 3	
123		51	491 TO 493	2 3	
124		51	613 TO 618		
125		51	861 TO 863	2 3	
126 127		52 52	302 TO 304 617 TO 619	2 3	
128		52	862 TO 864		
**** FOR		53, SEE	18 TO 30		
1 29		57	304 TO 309		
130		57	864 TO 869	2 3	
131		51	305 TO 313		
132		51	865 TO 873	2 3	
133		55	309 TO 317	2 3	
134	157 TO 1	55	326 TO 328	2 3	
135		55	869 TO 877	2 3 2 3 2 3 2 3 3 2 3	
136		55	887 TO 889	2 3	
137		59	328 TO 333	2 3	
138	161 TO 1	5 9	401 TO 409	2 3	

PATTERN	NOTES	RELATED TO	D NOTE	S	TEST	LENGTH
139	161 TO 169		473 TO	481	2	3
140	161 TO 169		873 TO	881	2	3
141	161 TO 169		886 TO	888	2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3 3
142	165 TO 177		253 TO	265	2	3
143	177 TO 193		337 TO	353	2	3
144	177 TO 193		515 TO	523	2	3
145	177 TO 193		629 TO	641	2	3
146	177 TO 193		661 TO	673	2	3
147	177 TO 193		1081 TO	1089		3
148	177 TO 193		1085 TO	1097	2	3
**** FOR	185 TO 201		41 TO	49	ABOVE ***	
**** FOR	193 TO 209	• SEE	37 TU	45	ABOVE ***	
149	219 TO 227		235 TO	243	2 2	3
150	219 TO 227		251 TO	257		3
**** FOR	221 TO 229		104 TO	109	ABOVE ***	
**** FOR	227 TO 235		105 TO	113	ABOVE ***	
**** FOR	229 TO ,237		109 TO	121	ABOVE ***	
**** FOR	235 TO 243		219 TO	227	ABOVE ***	
**** FOR	237 TO 245		104 TO	109		
**** FOR	245 TO 253		1 TO	9	ABOVE ***	
**** FOR **** FOR	251 TO 257 253 TO 265		219 TO	227		
151		• SEE	165 TO 321 TO	177	ABOVE ***	
**** FOR	257 TO 273 265 TO 277	• SEE	321 TO 37 TO	32 6 45	2 ABOVE ***	3
**** FOR	273 TO 281		121 TO	129	ABOVE ***	
**** FOR	277 TO 285		125 TO	133	ABOVE ***	
**** FOR	281 TO 289		129 TO		ABOVE ***	
**** FOR	285 TO 290		133 TO	138	ABOVE ***	
**** FOR	289 TO 301		137 TO	149	ABOVE ***	
**** FOR	290 TD 302		31 TO	33	ABOVE ***	
**** FOR	301 TO 303		149 TO	151		ķ
**** FOR	302 TO 304		150 TO		ABOVE ***	
**** FCR	303 TO 305		18 TO		ABOVE ***	ķ
**** FOR	304 TO 309		152 TO	157	ABOVE ***	ķ
**** FOR	305 TO 313		153 TO	161	ABOVE ***	k
**** FOR	309 TO 317	• SEE	157 TO	1.65	ABOVE ***	k
152	313 TO 321		327 TO	329	2	3
153	313 TO 321		393 TO	405	2	3
154	313 TO 321		885 TO	887	2	3
**** FOR	321 TO 326		257 TO		ABOVE ***	ķ
**** FOR	325 TO 327		101 TO		ABOVE ***	k
**** FOR	326 TO 328		157 TO	165	ABOVE ***	
**** FOR	327 TO 329		313 TO	321	ABOVE ***	
**** FOR	328 TO 333		161 TO	169		
155	329 TO 337		1021 TO	1025	2	3
* *** FOR	337 TO 353		177 70	193		
* * * * FOR	345 TO 361		41 TO	49	ABOVE ***	
**** FOR	353 TO 369	-	73 TO	89	ABOVE ***	
**** FOR	361 TO 377		73 TO	89	ABOVE ***	
**** FOR	369 TO 385		73 10	89	ABOVE ***	
**** FOR	377 TO 393	• SEE	37 TO	45	ABOVE ***	F

RELATED TO NCTES NOTES TEST LENGTH PATTERN 393 TO 313 TO 321 ABOVE **** **** FOR 405, SEE 161 TO **** FOR 401 TO 409. SEE 169 ABOVE **** 477 TO 405 TO 485 156 413 2 3 409 TO 481 TO 417 489 2 3 157 **** FOR 29 TO 31 ABOVE **** 413 TO 418, SEE **** FOR 417 TO 419. SEE 30 TO 32 ABOVE **** 33 ABOVE **** **** FOR 418 TO 420. SEE 31 TO 151 ABOVE **** **** FOR 419 TO 421. SEE 149 TO 158 420 TO 429 492 TO 501 2 3 421 TO 435 493 TO 159 507 2 3 133 ABOVE **** **** FOR 429 TO SEE 125 TO 437, **** FOR 435 TO 443, SEE 129 TO 137 ABOVE **** 437 TO SEE 113 TO 125 ABOVE **** **** FOR 445, **** FOR 443 TO 41 TO 49 ABOVE **** 449, SEE 160 465 TO 477 903 TO 918 2 3 **** FOR 473 TO SEE 161 TO 169 ABOVE **** 481. **** FOR 477 TO 405 TO 485. SEE 413 ABOVE **** **** FOR 481 TO 489. 409 TD 417 ABOVE **** SEE 29 TO 31 ABOVE **** **** FOR 485 TO 49C. SEE **** FOR 489 TO 491. SEE 30 TO 32 ABOVE **** **** FOR 490 TO 33 ABOVE **** 492, SEE 31 TO **** FOR 491 TO 493. SEE 149 TO 151 ABOVE **** **** FOR 492 TO 420 TO 429 ABOVE **** 501. SEE # ** FOR 493 TO SEE 421 TO 435 ABOVE **** 507, **** FOR 501 TO 509. SEE 125 TO 133 ABOVE **** **** FOR 507 TO SEE 129 TO 137 ABOVE **** 515. 509 TO 125 ABOVE **** **** FOR SEE 113 TO 517, 177 TO **** FOR 515 TO 523, SEE 193 ABOVE **** 161 523 TO 529 1025 TO 1041 2 3 525 TO 537 1033 TO 1045 2 3 162 **** FOR 529 TO 545. 29 TO 31 ABOVE **** SEE **** FOR 537 TO 553, SEE 57 TO 73 ABOVE **** **** FOR 545 TO SEE 41 TO 49 ABOVE *** 561. **** FOR 553 TO 569, SEE 73 TO 89 ABOVE **** **** FOR 561 TO 577, SEE 73 TO 89 ABOVE **** 569 TO **** FOR 89 TO 101 ABOVE **** 581. SEE 97 TO **** FOR 577 TO SEE 102 ABOVE **** 582, **** FOR 581 TO SEE 101 TO 103 ABOVE **** 583, **** FOR 582 TO 102 TO 584. SEE 104 ABOVE **** **** FOR 583 TO SEE 101 TO 103 ABOVE *** 585. **** FOR 601 TO 609, 41 TO 49 ABOVE **** SEE 163 609 TO 617 889 TO 893 2 3 151 ABOVE **** **** FOR 613 TO SEE 149 TO 618. **** FOR 617 TO 619. SEE 150 TO 152 ABOVE **** 30 ABOVE **** **** FOR 618 TO 620. SEE 18 TO **** FOR 619 TO 29 TO 621, SEE 31 ABOVE **** * *** FOR 629 TO 177 TO 193 ABOVE **** 641, SEE **** FOR 633 TO 41 TO 49 ABOVE **** 649. SEE * *** FOR 641 TO 657. SEE 37 TO 45 ABOVE **** * ** FOR 177 TO 661 TO SEE 193 ABOVE **** 673, **** FOR 669 TO 681, SEE 41 TO 49 ABOVE ****

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
PATTERN *** FOR **** FOR	NOTES 673 TO 689 697 TO 705 701 TO 713 705 TO 721 737 TO 753 745 TO 761 753 TO 769 761 TO 770 769 TO 793 770 TO 795 793 TO 797 795 TO 799 797 TO 801 799 TO 809 801 TO 817	SEE	NOTES 37 TO 45 33 TO 41 73 TO 89 73 TO 89 1 TO 9 5 TO 13 9 TO 17 13 TO 18 17 TO 29 18 TO 30 29 TO 31 30 TO 32 31 TO 33 32 TO 37 33 TO 41	ABOVE ****
**************************************	801 TO 817 809 TO 825 817 TO 833 825 TO 837 833 TO 841 837 TO 845 841 TO 845 845 TO 850 849 TO 861 850 TO 863 861 TO 863 862 TO 864 863 TO 865 864 TO 865 865 TO 873 869 TO 873	SEE	37 TO 45 41 TO 49 37 TO 45 121 TO 129 125 TO 133 129 TO 137 133 TO 138 137 TO 149 31 TO 33 149 TO 151 150 TO 152 18 TO 30 152 TO 157 153 TO 161 157 TO 165	ABOVE ****
######################################	885 TO 887 886 TO 888 887 TO 889 889 TO 893 895 TO 899 899 TO 903 903 TO 918 917 TO 919 918 TO 920 919 TO 921 933 TO 935 934 TO 936 935 TO 951 950 TO 952 951 TO 953 965 TO 967 966 TO 968	SEE	313 TO 321 161 TO 169 157 TO 165 609 TO 617 899 TO 903 895 TO 899 465 TO 477 29 TO 31 30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33	ABOVE ****

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
*** FOR 9 *** FOR 9 *** FOR 9 *** FOR 9 *** FOR 10 *** FOR 10	82 TO 984; 83 TO 985; 97 TO 999; 98 TO 1000; 99 TO 1011; 10 TO 1012; 11 TO 1013; 21 TO 1025; 25 TO 1041; 33 TO 1045; 41 TO 1049; 45 TO 1053; 49 TO 1053; 49 TO 1057; 53 TO 1069; 58 TO 1070; 69 TO 1071; 70 TO 1072; 71 TO 1073; 72 TO 1081; 77 TO 1085; 81 TO 1089;	SEE	30 TO 32 31 TO 33 29 TO 31 30 TO 32 31 TO 33 30 TO 32 31 TO 33 41 TO 49 329 TO 337 523 TO 529 525 TO 537 1 TO 9 5 TO 13 9 TO 17 13 TO 18 17 TO 29 18 TO 30 29 TO 31 30 TO 32 31 TO 32 31 TO 32 31 TO 33 32 TO 37 33 TO 41 37 TO 45 177 TO 193	ABOVE ****
**** FOR 10 **** FOR 10 **** FOR 10 **** FOR 11 **** FOR 11 **** FOR 11	85 TO 1097, 89 TO 1105, 97 TO 1113, 05 TO 1121, 13 TO 1129,	SEE SEE SEE SEE SEE	177 TO 193 41 TO 49 45 TO 57 29 TO 31 57 TO 73 41 TO 49 73 TO 89	ABOVE ****

SEARCH FCR PATTERNS OF 4 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 325 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST LENGTH
165 166	1 TO 13	737 TO 761 1041 TO 1053	2 4 2 4
167	5 TO 17	745 TO 769	
168	5 TO 17		
169	9 TO 18	753 TO 770	2 4
170	9 TO 18		
171	13 TO 29		
172	13 TO 29	1053 TO 1069	
173	17 TO 30		
174	17 TO 30		
175	18 TO 31	618 TO 621	
176	18 TO 31	770 TO 797	
177	18 TO 31	1058 TO 1071	
178	29 TO 32		
179	29 TO 32		2 4
180	29 TO 32	793 TO 799 917 TO 920	2 4
181 182	29 TO 32 29 TO 32	917 TO 920 933 TO 936	
183	29 TO 32 29 TO 32	949 TO 952	2 4
184	29 TO 32		2 4
185	29 TO 32	981 TO 984	2 4
186	29 TO 32		
187	29 TO 32	1069 TO 1072	2 4
188	30 TO 33	417 TO 420	
189	30 TO 33		2 4
190	30 TO 33		2 4
191	30 TO 33	918 TO 921	2 4 2 4
192	30 TO 33	934 TO 937	
193	30 TO 33	950 TO 953	
194	30 TO 33	966 TO 969	2 4 2 4 2 4
195	30 TO 33		
196	30 TO 33		
197	30 TO 33	1009 TO 1012	
198	30 TO 33		
199	31 TO 37		2 4
200	31 TO 37		
201	32 TO 41	799 TO 817	2 4
202	32 TO 41	1072 TO 1081	2 4
203	33 TO 45		2 4
204	33 TO 45		2 4
205	37 TO 49		2 4
206	41 TO 57		
207 208	45 TO 65 49 TO 73		2 4 2 4
200	47 10 /3	327 10 753	۷ 4

209	PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
210 57 TO 81 1137 TO 561 2 4 211 57 TO 81 1113 TO 1137 2 4 212 65 TO 89 345 TO 369 2 4 213 65 TO 89 1121 TO 1145 2 4 214 65 TO 89 1121 TO 1145 2 4 215 73 TO 97 353 TO 377 2 4 216 73 TO 97 353 TO 377 2 4 216 73 TO 97 361 TO 385 2 4 217 73 TO 97 553 TO 577 2 4 218 73 TO 97 701 TO 721 2 4 219 73 TO 97 7129 TO 1153 2 4 220 81 TO 101 561 TO 581 2 4 221 89 TO 102 569 TO 582 2 4 222 97 TO 103 577 TO 583 2 4 223 101 TO 104 581 TO 584 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 235 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 273 TO 235 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 429 TO 443 2 4 231 125 TO 137 501 TO 515 2 4 233 129 TO 138 841 TO 849 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 841 TO 860 2 4 234 129 TO 138 8841 TO 850 2 4 235 133 TO 149 885 TO 301 2 4 236 133 TO 149 885 TO 301 2 4 237 137 TO 150 889 13 TO 865 2 4 238 137 TO 150 889 10 80 80 TO 80 80 80 80 80 80 80 80 80 80 80 80 80	209	49 TO 73	11	.05 TO 1129	2	4
211 57 TO 81 1113 TO 1137 2 4 212 65 TO 89 345 TO 369 2 4 213 65 TO 89 545 TO 569 2 4 214 65 TO 89 1121 TO 1145 2 4 215 73 TO 97 353 TO 377 2 4 216 73 TO 97 361 TO 385 2 4 217 73 TO 97 7 701 TO 721 2 4 219 73 TO 97 7 701 TO 721 2 4 219 73 TO 97 7 701 TO 721 2 4 220 81 TO 102 569 TO 581 2 4 221 89 TO 102 569 TO 582 2 4 222 97 TO 103 577 TO 583 2 4 223 101 TO 104 581 TO 584 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 235 2 4 226 105 TO 121 227 TO 235 2 4 227 121 TO 133 273 TO 285 2 4 228 121 TO 133 833 TO 285 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 277 TO 289 2 4 231 125 TO 137 501 TO 515 2 4 232 125 TO 137 501 TO 515 2 4 233 129 TO 138 841 TO 890 2 4 234 129 TO 138 871 TO 849 2 4 234 129 TO 138 871 TO 849 2 4 235 133 TO 149 285 TO 301 2 4 236 133 TO 149 845 TO 861 2 4 237 137 TO 150 849 2 4 238 137 TO 150 889 10 845 TO 861 2 4 236 133 TO 150 889 10 849 2 4 237 137 TO 150 889 10 849 2 4 238 137 TO 150 889 10 849 2 4 239 138 TO 151 88 841 TO 890 2 4 230 125 TO 137 837 TO 849 2 4 231 125 TO 138 841 TO 890 2 4 232 125 TO 138 841 TO 890 2 4 233 129 TO 138 841 TO 890 2 4 234 129 TO 138 841 TO 860 2 4 235 133 TO 149 845 TO 861 2 4 236 133 TO 150 849 TO 862 2 4 237 137 TO 150 849 TO 861 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 980 TO 864 2 4 230 138 TO 151 980 TO 864 2 4 231 138 TO 151 980 TO 864 2 4 234 149 TO 152 861 TO 864 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 862 TO 865 2 4 247 150 TO 153 862 TO 865 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 153 862 TO 865 2 4 255 157 TO 161 864 TO 864 2 4 255 157 TO 161 864 TO 867 2 4 255 157 TO 169 865 TO 877 2 4 256 177 TO 201 867 TO 867 2 4 258 177 TO 201 667 869 TO 869 2 4 258 177 TO 201 667 869 TO 869 2 4 258 177 TO 201 669 TO 869 TO 869 2 4 258 177 TO 201 661 70 869 TO 869 2 4 258 177 TO 201 661 70 869 TO 869 2 4 258 177 TO 201 661 70 869 TO 869 TO 869 2 4 255 177 TO 201 661 70 869 TO 869 TO 869 2 4 255 177 TO 201 661 70 869 TO 869 TO 869 2 4 255 177 TO 201 661 70 869 TO 869 TO 869 2 4 255 177 TO 201 661 70 869 TO 869 TO 869 TO 869 TO	210	57 TO 81	5	37 TO 561	2	4
2112 65 TO 89 545 TO 369 2 4 2113 65 TO 89 545 TO 569 2 4 2114 65 TO 89 1121 TO 1145 2 4 2115 73 TO 97 353 TO 377 2 4 2116 73 TO 97 361 TO 385 2 4 2117 73 TO 97 361 TO 385 2 4 2117 73 TO 97 7 701 TO 721 2 4 2118 73 TO 97 1129 TO 1153 2 4 220 81 TO 101 561 TO 581 2 4 221 89 TO 102 569 TO 582 2 4 222 97 TO 103 577 TO 583 2 4 223 101 TO 104 581 TO 584 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 235 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 833 TO 845 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 429 TO 443 2 4 231 125 TO 137 837 TO 849 2 4 231 125 TO 137 837 TO 849 2 4 231 125 TO 138 841 TO 860 2 4 234 129 TO 138 841 TO 860 2 4 234 129 TO 138 841 TO 860 2 4 235 133 TO 149 285 TO 301 2 4 236 133 TO 149 285 TO 303 2 4 237 137 TO 150 289 TO 443 2 4 238 137 TO 150 289 TO 302 2 4 239 138 TO 151 280 849 TO 860 2 4 234 129 TO 138 841 TO 850 2 4 235 133 TO 149 285 TO 301 2 4 236 133 TO 149 285 TO 301 2 4 237 137 TO 150 289 TO 863 2 4 238 137 TO 150 849 TO 866 2 4 239 138 TO 151 49 865 TO 861 2 4 231 135 TO 151 49 865 TO 863 2 4 232 125 TO 137 837 TO 869 2 4 233 138 TO 151 49 865 TO 863 2 4 234 129 TO 138 841 TO 850 2 4 235 133 TO 149 865 TO 863 2 4 236 133 TO 150 869 TO 863 2 4 237 137 TO 150 869 TO 863 2 4 238 137 TO 150 869 TO 863 2 4 239 138 TO 151 418 TO 421 2 4 241 138 TO 151 850 TO 863 2 4 242 138 TO 151 860 TO 863 2 4 243 149 TO 152 861 TO 864 2 4 234 149 TO 152 861 TO 864 2 4 235 153 TO 165 865 TO 865 2 4 246 150 TO 153 862 TO 865 2 4 255 157 TO 161 864 TO 869 2 4 255 157 TO 161 864 TO 869 2 4 255 157 TO 161 864 TO 877 2 4 255 157 TO 161 866 TO 877 2 4 255 157 TO 169 866 TO 877 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 157 TO 169 869 TO 869 2 4 255 177 TO 201 661 70 661 TO 661 2 4	211	57 TO 81	11	13 TO 1137	2	4
216	212	65 TO 89	3	45 TO 369	2	4
216	213	65 TO 89	5	45 TO 569	2	4
216	214	65 TO 89	11	21 TO 1145	2	4
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235	215		3	53 TO 377	2	4
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235			3	61 TO 385	2	4
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235					2	4
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235					2	
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235					2	
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235					2	
223 101 TO 104 581 TO 585 2 4 224 102 TO 105 582 TO 585 2 4 225 104 TO 113 221 TO 237 2 4 226 105 TO 121 227 TO 237 2 4 227 121 TO 133 233 TO 285 2 4 228 121 TO 133 833 TO 845 2 4 229 125 TO 137 277 TO 289 2 4 230 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 501 TO 515 2 4 231 125 TO 137 837 TO 849 2 4 233 129 TO 138 281 TO 290 2 4 234 129 TO 138 841 TO 850 2 4 235					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4				-	2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
236 133 TO 149 845 TO 861 2 4 237 137 TO 150 289 TO 302 2 4 238 137 TO 150 849 TO 862 2 4 239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TD 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4					2	
239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TO 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 245 149 TO 153 302 TO 305 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 862 TO 865 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251						
239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TO 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 245 149 TO 153 302 TO 305 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 862 TO 865 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251					2	
239 138 TO 151 290 TO 303 2 4 240 138 TO 151 418 TO 421 2 4 241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TO 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 245 149 TO 153 302 TO 305 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 862 TO 865 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251					2	
241 138 T0 151 490 T0 493 2 4 242 138 T0 151 850 T0 863 2 4 243 149 T0 152 301 T0 304 2 4 244 149 T0 152 613 T0 619 2 4 245 149 T0 152 861 T0 864 2 4 246 150 T0 153 302 T0 305 2 4 247 150 T0 153 617 T0 620 2 4 248 150 T0 153 862 T0 865 2 4 249 151 T0 157 303 T0 309 2 4 250 151 T0 157 863 T0 869 2 4 251 152 T0 161 304 T0 313 2 4 251 152 T0 161 864 T0 873 2 4 253 153 T0 165 305 T0 317 2 4 254	239	138 TO 151	2	90 TO 303	2	4
241 138 TO 151 490 TO 493 2 4 242 138 TO 151 850 TO 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 617 TO 620 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254	240	138 TO 151	4	18 TO 421	2	4
242 138 TO 151 850 TO 863 2 4 243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 862 TO 865 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 251 152 TO 161 864 TO 873 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254			4	90 TO 493	2	4
243 149 TO 152 301 TO 304 2 4 244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 617 TO 620 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 251 152 TO 161 864 TO 873 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255					2	
244 149 TO 152 613 TO 619 2 4 245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 617 TO 620 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256					2	
245 149 TO 152 861 TO 864 2 4 246 150 TO 153 302 TO 305 2 4 247 150 TO 153 617 TO 620 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259					2	
246 150 TO 153 302 TO 305 2 4 247 150 TO 153 617 TO 620 2 4 248 150 TO 153 862 TO 865 2 4 249 151 TO 157 303 TO 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259					2	
247 150 to 153 817 to 820 2 4 248 150 to 153 862 to 865 2 4 249 151 to 157 303 to 309 2 4 250 151 to 157 863 to 869 2 4 251 152 to 161 304 to 313 2 4 252 152 to 161 864 to 873 2 4 253 153 to 165 305 to 317 2 4 254 153 to 165 865 to 877 2 4 255 157 to 169 869 to 881 2 4 256 177 to 201 337 to 361 2 4 257 177 to 201 629 to 649 2 4 258 177 to 201 661 to 681 2 4 259 177 to 201 1085 to 1105 2 4					2	
248 150 10 153 862 10 865 2 4 249 151 T0 157 303 T0 309 2 4 250 151 T0 157 863 T0 869 2 4 251 152 T0 161 304 T0 313 2 4 252 152 T0 161 864 T0 873 2 4 253 153 T0 165 305 T0 317 2 4 254 153 T0 165 865 T0 877 2 4 255 157 T0 169 869 T0 881 2 4 256 177 T0 201 337 T0 361 2 4 257 177 T0 201 629 T0 649 2 4 258 177 T0 201 661 T0 681 2 4 259 177 T0 201 1085 T0 1105 2 4					2	
249 151 10 157 303 19 309 2 4 250 151 TO 157 863 TO 869 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
250 151 10 157 865 10 869 2 4 251 152 TO 161 304 TO 313 2 4 252 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
251 152 TO 161 864 TO 873 2 4 253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
253 153 TO 165 305 TO 317 2 4 254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
254 153 TO 165 865 TO 877 2 4 255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
255 157 TO 169 869 TO 881 2 4 256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
256 177 TO 201 337 TO 361 2 4 257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
257 177 TO 201 629 TO 649 2 4 258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4	256				2	
258 177 TO 201 661 TO 681 2 4 259 177 TO 201 1085 TO 1105 2 4					2	
259 177 TO 201 1085 TO 1105 2 4					2	
			10		2	

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
260	185 TO 209		633 TO 657	2 4
261	185 TO 209		669 TO 689	2 4 2 4
262	185 TO 209		817 TO 837	2 4
263	219 TO 229		235 TO 245	2 4
* *** FOR	221 TO 235	• SEE	104 TO 113	ABOVE ****
**** FOR	227 TO 237	• SEE	105 TO 121	ABOVE ****
**** FOR	235 TO 245	=	219 TO 229	ABOVE ****
264	265 TO 281		825 TO 841	2 4
**** FOR	273 TO 285		121 TO 133	
**** FOR	277 TO 289			ABOVE ****
**** FOR	281 TO 290		129 TO 138	ABOVE ****
**** FOR	285 TO 301		133 TO 149	ABOVE ****
**** FOR	289 TO 302		137 TO 150	
**** FOR **** FOR	290 TO 303		138 TO 151	
•	301 TO 304 302 TO 305			ABOVE ****
**** FOR **** FOR	302 TO 305 303 TO 309			ABOVE **** ABOVE ****
**** FOR	304 TO 313		151 TO 157	ABOVE ****
**** FOR	305 TO 317		153 TO 165	ABOVE ****
265	309 TO 321		326 TO 329	2 4
**** FOR	326 TO 329		309 TO 321	
266	327 TO 333		393 TO 409	2 4
267	327 TO 333		885 TO 888	2 4
**** FOR	337 TO 361		177 TO 201	
**** FOR	345 TO 369		65 TO 89	ABOVE ****
**** FOR	353 TO 377	• SEE	73 TO 97	ABOVE ****
**** FOR	361 TO 385	• SEE	73 TO 97	ABOVE ***
**** FOR	393 TO 409	• SEE	327 TO 333	ABOVE ****
268	401 TO 413		473 TO 485	2 4
269	405 TO 417		477 TO 489	2 4
270	409 TO 418		481 TO 490	
	413 TO 419			ABOVE ****
**** FOR	417 TO 420			ABOVE ****
**** FOR	418 TO 421		138 TO 151	ABOVE ****
271	419 TO 429		491 TO 501	2 4
272 273	420 TO 435 421 TO 437		492 TO 507 493 TO 509	2 4 2 4
*** FOR	429 TO 443			2 4 ABOVE ****
274	435 TO 445		507 TO 517	2 4
**** FOR	473 TO 485		- -	ABOVE ****
**** FOR	477 TO 489			ABOVE ****
**** FOR	481 TO 490	-		ABOVE ****
**** FOR	485 TO 491	•		ABOVE ****
**** FOR	489 TO 492			ABOVE ****
**** FOR	490 TO 493		138 TO 151	ABOVE ****
**** FOR	491 TO 501	, SEE	419 TO 429	ABOVE ****
**** FOR	492 TO 507	, SEE	420 TO 435	ABOVE ****
**** FCR	493 TO 509	•		ABOVE ****
**** FOR	501 TO 515			ABOVE ****
**** FOR	507 TO 517			ABOVE ****
275	523 TO 537		1025 TO 1045	2 4

PATTERN NOTES RELATED TO NOTES TEST LENGTH

FAIIC	_ IN IN	•	1012		NCCA.	בט יט	•	1011	- 3	16,	, <u> </u>
****	FOR	529	TO	553	,	SEE	49	TO	73	ABOVE	****
***	FOR	537	TO	561	,	SEE	5 7	TO	81	ABOVE	****
****	FOR	545	TO	569	,	SEE	65	TO	89	ABOVE	****
****	FOR	553	TO	577	,	SEE	73	TO	97	ABOVE	***
****	FOR	561	TO	581	,	SEE	81	TO	101	ABOVE	***
****	FOR	569	TO	582	,	SEE	89	TO	102	ABOVE	***
* * *	FOR	577	TO	583	,	SEE	97	TO	103	ABOVE	***
****	FOR	581	CT	584		SEE	101	TO	104	ABOVE	***
****	FOR	582	TO	585	-	SEE	102	TO	105	ABOVE	***
****	FOR	613	TO	619		SEE	149	TO	152	ABOVE	***
***	FOR	617	TO	620		SEE	150	TO	153	ABOVE	***
* ***	FOR	618	TO	621		SEE	18	CT	31	ABOVE	****
****	FOR	629	TO	649		SEE	177	TO	201	ABOVE	****
****	FOR	633	TO	657		SEE	185	TO	209	ABOVE	****
****	FOR	661	TO	681	-	SEE	177	TO	201	ABOVE	****
***	FOR	669	TO	689		SEE	185	TO	209	ABOVE	***
****	FOR	701	TO	721		SEE	73	TO	97	ABOVE	****
****	FOR	737	TO	761	=	SEE	1	TO	13	ABOVE	****
****	FOR	745	TO	769		SEE	5	TO	17	ABOVE	****
	FOR	753	TO	770		SEE	9	TO	18	ABOVE	****
****	FOR FOR	761 769	TO TO	793 ₉		SEE	13 17	TO TO	29 30	ABOVE	****
****	FOR	770	TO	797	•	SEE SEE	18	TO	31	ABOVE	****
****	FOR	793	TO	799	-	SEE	29	TO	32	ABOVE	****
****	FOR	795	To	801		SEE	30	TO	33	ABOVE	***
****	FOR	797	TO	809		SEE	31	TO	37	ABOVE	****
****	FOR	799	TO	817	='	SEE	32	TO	41	ABOVE	****
****	FOR	801	TO	825	-	SEE	33	TO	45	ABOVE	***
****	FOR	809	TO	833		SEE	37	TO	49	ABOVE	***
****	FOR	817	TO	837		SEE	185	TO	209	ABOVE	***
***	FOR	825	TO	841		SEE	265	TO	281	ABOVE	***
* ***	FOR	833	TO	845	,	SEE	121	TO	133	ABOVE	****
****	FOR	837	TO	849	,	SEE	125	TO	137	ABOVE	***
****	FOR	841	TO	850	,	SEE	129	TO	138	ABOVE	****
****	FOR	845	TO	861	,	SEE	133	TO	149	ABOVE	***
***	FOR	849	TO	862	,	SEE	137	TO	150	ABOVE	****
* ***	FOR	850	TO	863		SEE	138	TO	151	ABOVE	****
****	FOR	861	TO	864		SEE	149	TO	152	ABOVE	***
****	FOR	862	TO	865		SEE	150	TO	153	ABOVE	***
****	FOR	863	TO	869		SEE	151	TO	157	ABOVE	***
****	FOR	864	TO	873		SEE	152	TO	161	ABOVE	***
****	FOR	865	TO	877		SEE	153	TO	165	ABOVE	***
* * * *	FOR	869	TO	881		SEE	157	TO	169	ABOVE	***
****	FOR FOR	885 917	TO	888		SEE	327	TO	333	ABOVE	****
****	FOR	518	TO	920 921 9	="	SEE SEE	29 30	TO TO	32 33	ABOVE	***
****	FOR	933	TO	936		SEE	29	TO	32	ABOVE	****
****	FOR	934	TO	937		SEE	30	TO	33	ABOVE	****
****	FOR	949	TO	952		SEE	29	TO	32	ABOVE	****
****	FOR	950	TO	953	=	SEE	30	TO	33	ABOVE	***
****	FOR	965	TO	968		SEE	29	TO	32	ABOVE	***
			-							*	

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
***	0((TD 0	40 555	30 TO 33	AROVE ****
**** FOR **** FOR		69, SEE	30 TO 33	ADDVE TITE
		84. SEE	29 TO 32	
**** FOR		85, SEE	30 TO 33	ABOVE ****
**** FOR	-	OO, SEE	29 TO 32	ABOVE ****
* *** FOR		Ol, SEE	30 TO 33	ABOVE ****
**** FOR		12. SEE	30 TO 33	AROVE ***
**** FCR	1025 TO 10	45, SEE	523 TO 537	ABOVE ****
**** FOR	1041 TO 10	53, SEE	1 TO 13	ABOVE ****
**** FOR	1045 TO 10	57, SEE	5 TO 17	ABOVE ****
**** FOR	1049 TO 10	58, SEE	9 TO 18	ABOVE ****
**** FOR	1053 TO 10	69, SEE	13 TO 29	ABOVE ****
**** FOR	1057 TO 10	70, SEE	17 TO 30	ABOVE ****
**** FOR	1058 TO 10	71, SEE	18 TO 31	ABOVE ****
**** FOR		72, SEE	29 TO 32	ABOVE ****
**** FOR	1070 TO 10	73, SEE	30 TO 33	ABOVE ****
		77, SEE	31 TO 37	ABOVE ****
	-	81. SEE	32 TO 41	ABOVE ****
**** FOR	_	85, SEE	33 TO 45	ABOVE ****
**** FOR		05, SEE	177 TO 201	ABOVE ****
**** FOR		13, SEE	41 TO 57	ABOVE ****
**** FOR		21, SEE	45 TO 65	ABOVE ****
**** FOR		29, SEE	49 TO 73	ABOVE ****
		37, SEE	57 TO 81	ABOVE ****

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 493 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED T	O NOTES	TEST LE	NGTH
276 277	1 TO 17		737 TO 769 1041 TO 1057	2 2	5 5
278	5 70 18		745 TO 770	2	5
279	5 TO 18		1045 TO 1058		5
280	9 TO 29		753 TO 793	2 2 2 2 2 2 2	5
281	9 TO 29	•	1049 TO 1069	2	5 5
282	13 TO 30		761 TO 795	2	
283	13 TO 30		1053 TO 1070	2	5
284	17 TO 31		769 TO 797	2	5 5 5
285	17 TO 31		1057 TO 1071	2	5
286	18 TO 32		770 TO 799	2	5
287	18 TO 32		1058 TO 1072	2	5
288	29 TO 33		413 TO 420	2 2 2 2	5
289	29 TO 33		485 TO 492	2	5 5 5
290	29 TO 33		793 TO 801	2	5
291	29 TO 33		917 TO 921		2
292 202	29 TO 33		933 TO 937 949 TO 953	2	5
293 294	29 TO 33		949 TO 953 965 TO 969	2 2	5 5
29 4 295	29 TO 33		981 TO 985	2	5
296	29 TO 33		997 TO 1001	2	5 5
297	29 TO 33		1069 TO 1073	2	5
298	30 TO 37		795 TO 809	2	5
2 9 9	30 TO 37		1070 TO 1077	2 2	5 5
300	31 TO 41		797 TO 817	2	5
301	31 TO 41		1071 TO 1081	2	5 5
302	32 TO 45		799 TO 825	2	5
303	32 TO 45		1072 TO 1085	2	5
304	33 TO 49)	801 TO 833	2	5
305	41 TO 65	;	1089 TO 1121	2	5
306	45 TO 73	1	1097 TO 1129	2	5
307	49 TO 81		529 TO 561	2	5
3C8	49 TO 81		1105 TO 1137	2	5
**** FOR	49 TO 81			ABOVE ****	
309	57 TO 89		537 TO 569	2	5
310	57 TO 89		1113 TO 1145	2	5
311	65 TO 97		345 TO 377	2	5
312	65 TO 97		545 TO 577	2	5
313	65 TO 97		1121 TO 1153	2	5
**** FOR	65 TO 97			ABOVE ****	_
314	73 TO 101		553 TO 581	2	5
315	81 TO 102 81 TO 102		561 TO 582	2 ABOVE ****	5
**** FOR			81 TO 102		5
316	89 TO 103	•	569 TO 583	2	כ

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
317	97 TO 104		577 TO 584	2 5
318	104 TO 121		221 TO 237	
319	121 TO 137		273 TO 289	2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
320	121 TO 137		833 TO 849	2 5
321	125 TO 138		277 TO 290	2 5
322	125 TO 138		837 TO 850	2 5
323 324	129 TO 149 129 TO 149		281 TO 301 841 TO 861	2 5
324 325	133 TO 150		285 TO 302	2 5
326	133 TO 150		845 TO 862	2 5
327	137 TO 151		289 TO 303	2 5
328	137 TO 151		849 TO 863	2 5
329	138 TO 152		290 TO 304	2 5
330	138 TO 152		850 TO 864	
**** FOR	138 TO 152	• SEE	138 TO 152	
331	149 TO 153		301 TO 305	
332	149 TO 153		613 TD 620	
333	149 TO 153		861 TO 865	2 5
334	150 TO 157		302 TO 309	
3 35	150 TO 157		862 TO 869	2 5
3 36	151 TO 161		303 TO 313	
337 **** FOR	151 TO 161 151 TO 161	• SEE	863 TO 873 151 TO 161	
338	152 TO 165	, 366	304 TO 317	
339	152 TO 165		864 TO 677	
340	153 TO 169		865 TO 881	2 5 2 5
341	177 TO 209		629 TO 657	
342	177 TO 209		661 TO 689	
**** FOR	221 TO 237	• SEE	104 TO 121	
34 3	265 TO 285		825 TO 845	2 5
**** FOR	265 TO 285			ABOVE ****
**** FOR	273 TO 289	=		ABOVE ****
**** FOR	277 TO 290			ABOVE ***
**** FOR **** FOR	281 TO 301		129 TO 149	
**** FOR **** FOR	285 TO 302		133 TO 150	
**** FOR	289 TO 303 290 TO 304	=	137 TO 151 138 TO 152	ABOVE **** ABOVE ****
**** FOR	301 TO 305	•		ABOVE ****
**** FOR	302 TO 309		150 TO 157	
#*** FOR	303 TO 313		151 TO 161	
**** FOR	304 TO 317			ABOVE ****
**** FOR	345 TO 377		65 TO 97	
344	401 TO 417		473 TO 489	2 5
**** FOR	401 TO 417			ABOVE ****
345	405 TO 418		477 TO 490	
346	409 TO 419		481 TO 491	
* *** FOR	413 TO 420	• SEE	29 TO 33	
347	417 TO 421		489 TO 493	
348 349	418 TO 429		490 TO 501 491 TO 507	
349 **** FOR	419 TO 435 419 TO 435			ABOVE ****
TTTT FUN	717 10 733	7 366	747 IU 733	MOOAE AAAA

PATTERN	NCTES	RELATED TO	NOTES	TEST LENGTH
350	420 TO 437		492 TO 509	2 5
351	421 TO 443		493 TO 515	2 5
352	429 TO 445		501 TO 517	2 5
**** FOR	473 TO 489	• SEE	401 TO 417	ABOVE ****
**** FOR	477 TO 490	• SEE	405 TO 418	ABOVE ****
**** FOR	481 TO 491	• SEE	409 TO 419	ABOVE ****
**** FOR	485 TO 492	, SEE	29 TO 33	ABOVE ****
**** FOR	489 TO 493	•	417 TO 421	ABOVE ****
**** FOR	490 TO 501		418 TO 429	ABOVE ****
**** FOR	491 TO 507		419 TO 435	ABOVE ****
**** FOR	492 TO 509		420 TO 437	
**** FOR	493 TO 515		421 TO 443	ABOVE ****
**** FOR	501 TO 517	=	429 TO 445	ABOVE ****
**** FOR	529 TO 561		49 TO 81	ABOVE ****
**** FOR	537 TO 569		57 TO 89	ABOVE ****
**** FOR ****	545 TO 577 553 TO 581		65 TO 97 73 TO 101	ABOVE ****
**** FOR	561 TO 582		81 TO 102	ABOVE ****
**** FOR	569 TO 583		89 TO 103	ABOVE ****
**** FOR	577 TO 584	-	97 TO 104	ABOVE ****
**** FOR	613 TO 620		149 TO 153	ABOVE ****
**** FOR	629 TO 657		177 TO 209	ABOVE ****
**** FOR	661 TO 689		177 TO 209	ABOVE ****
**** FOR	737 TO 769		1 TO 17	ABOVE ****
**** FOR	745 TO 770		5 TO 18	ABOVE ****
**** FOR	753 TO 793	-	9 TO 29	ABOVE ****
**** FOR	761 TO 795		13 TO 30	ABOVE ****
**** FOR	769 TO 797		17 TO 31	ABOVE ****
**** FOR	770 TO 799	• SEE	18 TO 32	ABOVE ***
**** FOR	793 TO 801	• SEE	29 TO 33	ABOVE ****
**** FOR	795 TO 809		30 TO 37	ABOVE ****
**** FOR	797 TO 817	-	31 TO 41	ABOVE ****
**** FOR	799 TO 825		32 TO 45	ABOVE ****
**** FOR	801 TO 833	-	33 TO 49	ABOVE ****
**** FOR	825 TO 845	₹	265 TO 285	ABOVE ****
**** FOR	833 TO 849		121 TO 137	
**** FOR ***	837 TO 850 841 TO 861			ABOVE **** ABOVE ****
**** FOR	841 TO 861 845 TO 862		129 TO 149 133 TO 150	
**** FOR	849 TO 863		137 TO 151	
**** FOR	850 TO 864			ABOVE ****
**** FOR	861 TO 865		149 TO 153	ABOVE ****
**** FOR	862 TO 869	=	150 TO 157	
**** FOR	863 TO 873	•	151 TO 161	ABOVE ****
**** FOR	864 TO 877			ABOVE ****
**** FOR	865 TO 881		153 TO 169	
**** FOR	917 TO 921	•	29 TO 33	
**** FOR	933 TO 937	*	29 TO 33	ABOVE ****
**** FOR	949 TO 953		29 TO 33	ABOVE ****
**** FOR	965 TO 969			ABOVE ****
**** FOR	981 TO 985	• SEE	29 TO 33	ABOVE ****

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	997 TO 100)1, SEE	29 TO 33	ABOVE ****
**** FOR	1041 TO 109	ST, SEE	1 TO 17	ABOVE ****
**** FOR	1045 TO 105	SEE	5 TO 18	ABOVE ****
**** FOR	1049 TO 106	see	9 TO 29	ABOVE ****
**** FOR	1053 TO 107	O. SEE	13 TO 30	ABOVE ****
**** FOR	1057 TO 107	71, SEE	17 TO 31	ABOVE ****
**** FOR	1058 TO 107	72, SEE	18 TO 32	ABOVE ****
**** FOR	1069 TO 107	73, SEE	29 TO 33	ABOVE ****
**** FOR	1070 TO 107	77, SEE	30 TO 37	ABOVE ****
**** FOR	1071 TO 108	SI. SEE	31 TO 41	ABOVE ****
**** FOR	1072 TO 108	SEE SEE	32 TO 45	ABOVE ****
**** FOR	1089 TO 112	21. SEE	41 TO 65	ABOVE ****
**** FOR	1097 TO 112	9. SEE	45 TO 73	AROVE ****

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 667 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST LENGT	ГН
3 53 3 54	1 TO 18		2 6 2 6	
355	5 TO 29	745 TO 793	2 6	
356	5 TO 29	1045 TO 1069	2 6	
35 7	9 TO 30	753 TO 795	2 6 2	
358	9 TO 30		2 6	
359	13 TO 31	761 TO 797	2 6	
360	13 TO 31	1053 TO 1071	2 6 2 6	
361	17 TO 32	769 TO 799	2 6	
362	17 TO 32	1057 TO 1072	2 6 2 6	
363	18 TO 33	770 TO 801	2 6	
364	18 TO 33	1058 TO 1073	2 6	
365	29 TO 37	793 TO 809	2 6 2 6	
366	29 TO 37	1069 TO 1077		
367	30 TO 41	795 TO 817	2 6	
368	30 TO 41	1070 TO 1081	2 6 2 6 2 6	
369	31 TO 45	797 TO 825	2 6	
370	31 TO 45	1071 TO 1085	2 6	
371	32 TO 49		2 6 2 6 2 6 2 6	
372 373	41 TO 73 45 TO 81	1089 TO 1129 1097 TO 1137	2 6 2 6	
374	49 TO 89	529 TD 569	2 6	
375	49 TO 89	1105 TO 1145	2 6	
376	57 TO 97	537 TO 577	2 6 2 6	
377	57 TO 97	1113 TO 1153	2 6	
378	65 TO 101	545 TO 581	2 6	
379	73 TO 102	_	2 6	
380	81 TO 103	561 TO 583	2 6	
381	89 TO 104	569 TO 584		
382	97 TO 105	577 TO 585	2 6 2 6	
383	121 TO 138		2 6	
384	121 TO 138	833 TO 850	2 6	
385	125 TO 149		2 6 2 6 2 6 2 6 2 6	
386	125 TO 149		2 6	
387	129 TO 150		2 6	
388	129 TO 150		2 6	
389	133 TO 151	285 TO 303	2 6	
390 391	133 TO 151 137 TO 152	845 TO 863 289 TO 304	2 6	
392	137 TO 152	849 TO 864	2 6 2 6	
393	138 TO 153	290 TO 305	2 6	
394	138 TO 153	— · · -	2 6 2 6 2 6 2 6	
395	149 TO 157		2 6	
396	149 TO 157		2 6	
			_	

PATTERN	NOTES	RELATED TO	NOTES	TEST LEN	IGTH
397	150 TO 161		302 TO 313	2	6
398	150 TO 161		862 TO 873	2 2 2	6
399	151 TO 165		303 TO 317	2	6
400	151 TO 165		863 TO 877	2 2	6
401	152 TO 169		864 TO 881		6
402	265 TO 289		825 TO 849	2	6
**** FOR	273 TO 290		121 TO 138		
**** FOR	277 TO 301		125 TO 149		
**** FCR	281 TO 302		129 TO 150	ABOVE ****	
**** FOR	285 TO 303		133 TO 151	ABOVE ****	
**** FOR	289 TO 304		137 TO 152	ABOVE ****	
**** FOR **** FOR	290 TO 305 301 TO 309		138 TO 153 149 TO 157	ABOVE **** ABOVE ****	
**** FOR	302 TO 313		150 TO 161	ABOVE ****	
**** FOR	303 TO 317		151 TO 165	ABOVE ****	
403	401 TO 418	, 522	473 TO 490	2	6
404	405 TO 419		477 TO 491	2	6
405	409 TO 420		481 TO 492	2	6
406	413 TO 421		·485 TO 493	2	6
407	417 TO 429		489 TO 501	2	6
**** FOR	417 TO 429	, SEE	417 TO 429		
4C8	418 TO 435		490 TO 507	2	6
**** FOR	418 TO 435	• SEE	418 TO 435	ABOVE ****	
409	419 TO 437		491 TO 509	2	6
410	420 TO 443		492 TO 515	2	6
411	421 TO 445		493 TO 517	2	6
* *** FOR	473 TO 490		401 TO 418	ABOVE ***	
**** FOR	477 TO 491	=	405 TO 419	ABOVE ****	
**** FOR	481 TO 492		409 TO 420	ABOVE ***	
**** FOR	485 TO 493		413 TO 421	ABOVE ****	
**** FOR	489 TO 501			ABOVE ****	
**** FOR **** FOR	490 TO 507			ABOVE **** ABOVE ****	
**** FOR **** FOR	491 TO 509 492 TO 515		419 TO 437 420 TO 443		
**** FOR	492 TO 515	•	420 TO 445		
**** FOR	529 TO 569	=	49 TO 89	ABOVE ****	
**** FOR	537 TO 577		57 TO 97	ABOVE ****	
**** FOR	545 TO 581		65 TO 101		
**** FOR	553 TO 582			ABOVE ****	
**** FOR	561 TO 583	-	81 TO 103		
**** FOR	569 TO 584			ABOVE ****	
**** FOR	577 TO 585		97 TO 105		
**** FOR	737 TO 770	• SEE	1 TO 18	ABOVE ****	
**** FOR	745 TO 793		5 TO 29		
**** FOR	753 TO 795		9 TO 30	ABOVE ****	
**** FOR	761 TO 797	•	13 TO 31	ABOVE ***	
**** FOR	769 TO 799	-	17 TO 32	ABOVE ****	
**** FOR	770 TO 801		18 TO 33	ABOVE ***	
**** FOR	793 TO 809		29 TO 37	ABOVE ****	
**** FOR	795 TO 817		30 TO 41	ABOVE ****	
**** FOR	797 TO 825	• SEE	31 TO 45	ABOVE ****	

PATTERN	NOTES	PELATED TO	NOTES	TEST LENGTH
**** FOR 79			32 TO 49 265 TO 289	ABOVE **** ABOVE ****
**** FOR 83	33 TO 850 37 TO 861	SEE SEE	121 TO 138 125 TO 149	ABOVE **** ABOVE ****
**** FOR 84 **** FOR 84 **** FOR 84	5 TO 863	SEE	129 TO 150 133 TO 151 137 TO 152	ABOVE **** ABOVE **** ABOVE ****
**** FOR 85	50 TO 865	SEE SEE	138 TO 153 149 TO 157	ABOVE **** ABOVE ****
**** FOR 86 **** FOR 86 **** FOR 86	53 TO 877	SEE	150 TO 161 151 TO 165 152 TO 169	ABOVE **** ABOVE **** ABOVE ****
**** FOR 104 **** FOR 104 **** FOR 104	5 TO 1069	SEE	1 TO 18 5 TO 29 9 TO 30	ABOVE **** ABOVE ****
**** FOR 105	53 TO 1071	SEE SEE	13 TO 31 17 TO 32	ABOVE **** ABOVE ****
**** FOR 105 **** FOR 106 **** FOR 107	69 TO 1077	SEE	18 TO 33 29 TO 37 30 TO 41	ABOVE **** ABOVE ****
**** FOR 107			31 TO 45	ABOVE ***

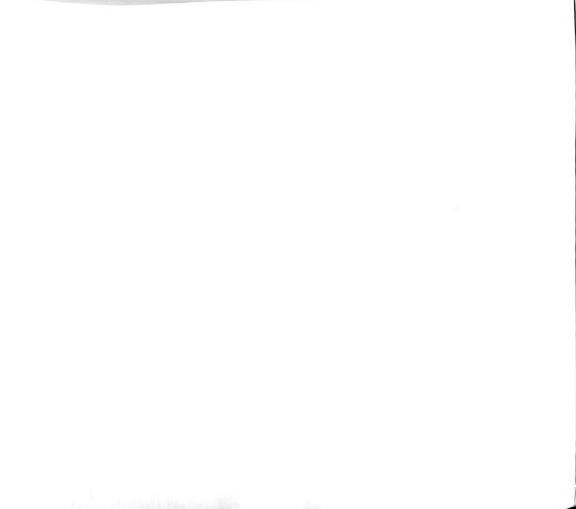
SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 839 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST LENGTH
412 413	1 TO 29		9 2 7
414	5 TO 30		5 2 7
415	5 TO 30		
416	9 TO 31	753 TO 79	7 2 7
417	9 TO 31 13 TO 32	1049 TO 107	1 2 7
418 419	13 TO 32	761 TO 79 1053 TO 107	
420	17 TO 33		
421	17 TO 33		3 2 7
422	18 TO 37		
423	18 TO 37		
424	29 TO 41	793 TO 81	7 2 7
425	29 TO 41	1069 TO 108	1 2 7
426	30 TO 45		5 2 7
427	30 TO 45		
428	31 TO 49		3 2 7
429	41 TO 81	1089 TO 113	
430	45 TO 89	1097 TO 114	
431 432	49 TO 97 49 TO 97	529 TO 57 1105 TO 115	
433	57 TO 101	1105 TO 115 537 TO 58	
434	65 TO 102		
435	73 TO 103		
436	81 TO 104		
437	89 TO 105		5 2 7
438	121 TO 149	273 TO 30	
439	121 TO 149		1 2 7
440	125 TO 150		
441	125 TO 150		
442	129 TO 151	281 TO 30	
443	129 TO 151	841 TO 86	3 2 7
444 445	133 TO 152 133 TO 152	285 TO 30 845 TO 86	4 2 7 4 2 7
446	137 TO 153		5 2 7
447	137 TO 153	849 TO 86	5 2 7
448	138 TO 157		9 2 7
449	138 TO 157		9 2 7
450	149 TO 161	301 TO 31	
451	149 TO 161	861 TO 87	3 2 7
452	150 TO 165		7 2 7
453	150 TO 165		7 2 7
454	151 TO 169		1 2 7
455	265 TO 290	825 T O 85	0 2 7

PATTERN	NOTES	RELATED TC	NOTES	TEST	LENGTH
456	401 TO 41	9	473 TO 491	2	7
457	405 TO 42	0	477 TO 492	2	7
458	409 TO 42	1	481 TO 493	2	7
459	413 TO 42	9	485 TO 501	2	7
460	417 TO 43	5	489 TO 507	2	7
461	418 TO 43	7	490 TO 509	2	7
462	419 TO 44	3	491 TO 515	2	7
463	420 TO 44	5	492 TO 517	2	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -- EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 859 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTES	TEST	LENGTH
PATTERN 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483	NOTES 1 TO 30 1 TO 30 5 TO 31 5 TO 31 9 TO 32 9 TO 32 13 TO 33 13 TO 33 17 TO 37 17 TO 37 18 TO 41 18 TO 41 18 TO 41 29 TO 45 29 TO 45 30 TO 49 41 TO 89 45 TO 97 49 TO 101 57 TO 102 65 TO 103	RELATED	737 TO 795 1041 TO 1070 745 TO 797 1045 TO 1071 753 TO 799 1049 TO 1072 761 TO 801 1053 TO 1073 769 TO 809 1057 TO 1077 770 TO 817 1058 TO 1081 793 TO 825 1069 TO 1085 795 TO 833 1089 TO 1145 1097 TO 1153 529 TO 581 537 TO 582 545 TO 583	TEST 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	B 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	65 TO 103 73 TO 104 81 TO 105 121 TO 150 121 TO 150 125 TO 151 125 TO 151 129 TO 152 129 TO 152 133 TO 153 133 TO 153 137 TO 157 137 TO 157 138 TO 161 138 TO 161		545 TO 583 553 TO 584 561 TO 585 273 TO 302 833 TO 862 277 TO 303 837 TO 863 281 TO 304 841 TO 864 285 TO 305 845 TO 865 289 TO 309 849 TO 869 290 TO 313 850 TO 873	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
498 499 500 501 502 503 504 505 506 507	149 TO 165 149 TO 165 150 TO 169 265 TO 301 401 TO 420 405 TO 421 409 TO 429 413 TO 437 417 TO 437 418 TO 443		301 TO 317 861 TO 877 862 TO 881 825 TO 861 473 TO 492 477 TO 493 481 TO 501 485 TO 507 489 TO 509 490 TO 515	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8



PATTERN	NCTES	RELATED 1	TO NOTES	TEST	LENGTH
508	419 TO 445	;	491 TO 517	2	8

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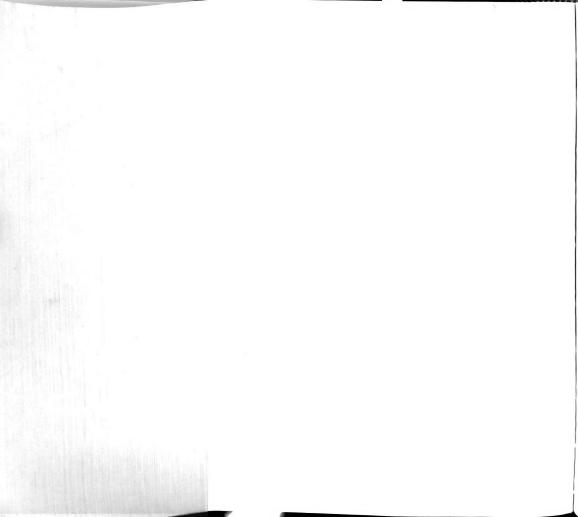
SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 879 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
509 510	1 TO 31 1 TO 31	737 TO 797 1041 TO 1071 745 TO 799	2 2	9 9 9
511 512	5 TO 32 5 TO 32	1045 TO 1072	2 2	9
513 514	9 TO 33 9 TO 33	753 TO 801 1049 TO 1073	2	9
515 516	13 TO 37 13 TO 37	761 TO 809 1053 TO 1077	2	9
517 518	17 TO 41 17 TO 41	769 TO 817 1057 TO 1081	2	9 9
519 520	18 TO 45	770 TO 825 1058 TO 1085	2	9
521 522	29 TO 49 41 TO 97	793 TO 833 1089 TO 1153	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9
523 524	49 TO 102 57 TO 103	529 TO 582 537 TO 583	2	9
525 526	65 TO 104 73 TO 105 121 TO 151	545 TO 584 553 TO 585 273 TO 303	2 2 2	9 9 9
52 7 528 529	121 TO 151 121 TO 151 125 TO 152	273 TO 303 833 TO 863 277 TO 304	2	9 9
530 531	125 TO 152 125 TO 152 129 TO 153	837 TO 864 281 TO 305	2	9
532 533	129 TO 153 133 TO 157	841 TO 865 285 TO 309	2 2 2 2 2 2	9 9
534 535	133 TO 157 137 TO 161	845 TO 869 289 TO 313	2	9 9
536 537	137 TO 161 138 TO 165	849 TO 873 290 TO 317	2 2	9
538 539	138 TO 165 149 TO 169	850 TO 877 861 TO 881	2	9 9
540 541	265 TO 302 401 TO 421	825 TO 862 473 TO 493	2 2 2 2 2 2 2 2 2	9 9
542 543	405 TO 429 409 TO 435	477 TO 501 481 TO 507	2	9 9
544 545	413 TO 437 417 TO 443	485 TO 509 489 TO 515	2 2	9 9
546	418 TO 445	490 TO 517	2	9



SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 899 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
547	1 TO 32	737 TO 799	2	10
548	1 TO 32	1041 TD 1072	2	10
549	5 TO 33	745 TO 801	2	10
550	5 TO 33	1045 TO 1073	2	10
551	9 TO 37	753 TO 809	2	10
552	9 TO 37	1049 TO 1077	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10
553	13 TO 41	761 TO 817	2	10
554	13 TO 41	1053 TO 1081	2	10
555	17 TO 45	769 TO 825	2	10
556	17 TO 45	1057 TO 1085	2	10
557	18 TO 49	770 TO 833	2	10
558	49 TO 103	529 TO 583	2	10
559	57 TO 104	537 TO 584	2	10
560	65 TO 105	545 TO 585	2	10
561	121 TO 152	273 TO 304	2	10
562	121 TO 152	833 TO 864	2	10
563	125 TO 153	277 TO 305	2	10
564	125 TO 153	837 TO 865	2	10
565	129 TO 157	281 TO 309	2	10
566	129 TO 157	841 TO 869	2	10
567	133 TO 161	285 70 313	2	10
568	133 TO 161	845 TO 873	2	10
569	137 TO 165	289 TO 317	2	10
570	137 TO 165	849 TO 877	2	10
571	138 TO 169	850 TO 881	2	10
572	265 TO 303	825 TO 863	2	10
573	401 TO 429	473 TD 501	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10
574	405 TO 435	477 TO 507	2	10
575	409 TO 437	481 TO 509	2	10
576	413 TO 443	485 TJ 515	2	10
577	417 TO 445	489 TO 517	2	10



SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 917 SECONDS INTO EXECUTION.

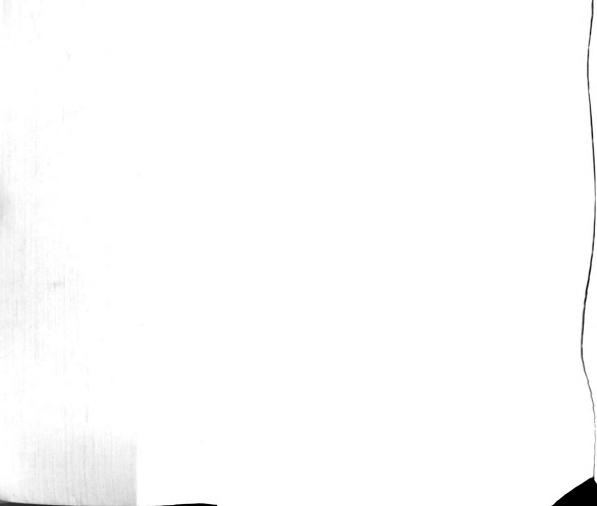
PATTERN	NOTES	RELATED TO NOTES	TEST LENGTH
578	1 TO 33	737 TO 801	2 11
579	1 TO 33	1041 TD 1073	
580	5 TO 37	745 TO 809	2 11
581	5 TO 37	1045 TO 1077	2 11 2 11
582	9 TO 41	753 TO 817	2 11
583	9 TO 41	1049 TO 1081	2 11 2 11
584	13 TO 45	761 TO 825	2 11
585	13 TO 45	1053 TO 1085	
586	17 TO 49	7 69 TO 833	2 11 2 11
587	49 TO 104	529 TO 584	2 11
588	57 TO 105	537 TO 585	2 11
589	121 TO 153	273 TO 305	2 11
590	121 TO 153	833 TO 865	
591	125 TO 157	277 TO 309	2 11 2 11
592	125 TO 157	837 TO 869	2 11
593	129 TO 161	281 TO 313	2 11
594	129 TO 161	841 TD 873	2 11 2 11 2 11
595	133 TO 165	285 TO 317	2 11
596	133 TO 165	845 TO 877	2 11
597	137 TO 169	849 TO 881	. 2 11
598	265 TO 304	825 TO 864	2 11 2 11 2 11 2 11
599	401 TO 435	473 TO 507	2 11
600	405 TO 437	477 TO 509	
601	409 TO 443	481 TO 515	2 11
602	413 TO 445	485 TO 517	

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 936 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
603	1 TO 37	737 TO 809	2	12
604	1 TO 37	1041 TO 1077	2	12
605	5 TO 41	745 TO 817	2	12
606	5 TO 41	1045 TO 1081	2	12
607	9 TO 45	753 TD 825	2	12
608	9 TO 45	1049 TO 1085	2 2	12
609	13 TO 49	761 TO 833	2	12
610	49 TO 105	529 TO 585	2	12
611	121 TO 157	273 TO 309	2	12
612	121 TO 157	833 TD 869	2	12
613	125 TO 161	277 TO 313	2	12
614	125 TO 161	837 TO 873	2	12
615	129 TO 165	281 TO 317	2 2	12
616	129 TO 165	841 TO 877		12
617	133 TO 169	845 TO 881	2	12
618	265 TO 305	825 TO 865	2	12
619	401 TO 437	473 TO 509	2	12
620	405 TO 443	477 TO 515	2	12
621	409 TO 445	481 TO 517	2	12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 954 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOTES	TEST LENGT	Η
622	1 TO 41		817 2 13	
623	1 TO 41	1041 TO 1	081 2 13	
624	5 TO 45	7 45 T 0	825 2 13	
625	5 TO 45	1045 TO 1	085 2 13	
626	9 TO 49	753 T 0	833 2 13	
627	121 TO 161	273 TO	313 2 13	
628	121 TO 161	833 TO	873 2 13	
629	125 TO 165	2 77 TO	317 2 13	
630	125 TO 165	837 TO	877 2 13	
631	129 TO 169	841 TO	881 2 13	
632	265 TO 309	825 TO	869 2 13	
633	401 TO 443	47 3 TO	515 2 13	
634	405 TO 445	477 TO	517 2 13	



SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 972 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOT	res	TEST	LENGTH		
635	1 TO 45	737 TO	825	2	14		
636	1 TO 45	1041 TO	1085	2	14		
637	5 TO 49	745 TO	833	2	14		
638	121 TO 165	273 TO	317	2	14		
639	121 TO 169	833 TO	877	2	14		
640	125 TO 169	837 TO	881	2	14		
641	265 TO 313	825 TO	873	2	14		
642	401 TO 445	473 TO	517	2	14		

SEARCH FOR PATTERNS OF 15 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 989 SECONDS INTO EXECUTION.

PATTERN	NOTE	S	RELATED	TO	רסא	ΓES	TEST	LENGTH
643	1 T O	49			737 TO	833	2	15
644	121 TO	169			833 TO	881	2	15
645	265 TO	317			825 TO	877	2	15

SEARCH FOR PATTERNS OF 16 NOTES IN LENGTH -EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 1006 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 645 PATTERNS LOCATED.

*** TYPE II LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE EXACT CONTOUR (ORIGINAL)

JRIGINAL PATTERN 265 TO 317 2 15 JRIGINAL PATTERN 121 TO 169 2 15 SUBPATTERN 149 TO 153 4 5 SUBPATTERN 150 TO 153 4 4 SUBPATTERN 149 TO 152 4 4 SUBPATTERN 138 TO 151 5 4 SUBPATTERN 125 TO 137 5 4 SUBPATTERN 161 TO 169 6 3 SUBPATTERN 157 TO 165 5 3 SUBPATTERN 150 TO 152 4 3 SUBPATTERN 149 TO 151 6 3 SUBPATTERN 149 TO 151 6 3 SUBPATTERN 129 TO 137 5 3 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 30 TO 49 13 3 SUBPATTERN 31 TO 49 13 3 SUBPATTERN 33 TO 41 4 4 SUBPATTERN 33 TO 41 4 4 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 32 12 3 SUBPATTERN 30 TO 30 7 3		LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF PATTERN
SUBPATTERN 149 TO 153 4 5 SUBPATTERN 150 TO 153 4 4 SUBPATTERN 149 TO 152 4 4 SUBPATTERN 138 TO 151 5 4 SUBPATTERN 125 TO 137 5 4 SUBPATTERN 161 TO 169 6 3 SUBPATTERN 157 TO 165 5 3 SUBPATTERN 150 TO 152 4 3 SUBPATTERN 149 TO 151 6 3 SUBPATTERN 129 TO 137 5 3 SUBPATTERN 129 TO 137 5 3 SUBPATTERN 125 TO 133 5 3 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 29 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 37 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 31 TO 32 12 3 SUBPATTERN 31 TO 32 15 3 SUBPATTERN 31 TO 32 15 3 SUBPATTERN 31 TO 32 12 3 SUBPATTERN 30 TO 32 12 3	URIGINAL PATTERN	265 TO 317	2	15
SUBPATTERN 150 TO 153 4 4 4 SUBPATTERN 149 TO 152 4 4 4 SUBPATTERN 138 TO 151 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5			2	
SUBPATTERN 149 TO 152 4				
SUBPATTERN 138 TO 151 5 4 SUBPATTERN 125 TO 137 5 4 SUBPATTERN 161 TO 169 6 3 SUBPATTERN 157 TO 165 5 3 SUBPATTERN 150 TO 152 4 3 SUBPATTERN 149 TO 151 6 3 SUBPATTERN 129 TO 137 5 3 SUBPATTERN 125 TO 133 5 3 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 30 TO 32 12				
SUBPATTERN 125 TO 137 5				
SUBPATTERN 161 TO 169 6 3 SUBPATTERN 157 TO 165 5 3 SUBPATTERN 150 TO 152 4 3 SUBPATTERN 149 TO 151 6 3 SUBPATTERN 129 TO 137 5 3 SUBPATTERN 125 TO 133 5 3 URIGINAL PATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 37 TO 3				
JRIGINAL PATTERN 1 TO 49 2 15 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				
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JRIGINAL PATTERN 1 TO 49 2 15 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3	SUBPATTERN	150 TO 152	4	3
JRIGINAL PATTERN 1 TO 49 2 15 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				3
JRIGINAL PATTERN 1 TO 49 2 15 SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				3
SUBPATTERN 29 TO 33 11 5 SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3	SUBPATTERN	125 TO 133	5	3
SUBPATTERN 30 TO 33 12 4 SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3	JRIGINAL PATTERN	1 TO 49	2	15
SUBPATTERN 29 TO 32 11 4 SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3	SUBPATTERN	29 TO 33	11	5
SUBPATTERN 18 TO 31 4 4 SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				
SUBPATTERN 41 TO 49 13 3 SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				
SUBPATTERN 37 TO 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3				
SUBPATTERN 37 TU 45 9 3 SUBPATTERN 33 TO 41 4 3 SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3 SUBPATTERN 18 TO 30 7 3		_		
SUBPATTERN 31 TO 33 15 3 SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3 SUBPATTERN 18 TO 30 7 3				3
SUBPATTERN 30 TO 32 12 3 SUBPATTERN 29 TO 31 15 3 SUBPATTERN 18 TO 30 7 3	- -			<i>3</i> 3
SUBPATTERN 29 TO 31 15 3 SUBPATTERN 18 TO 30 7 3				3
SUBPATTERN 18 TO 30 7 3				3
	·			3

^{****} TEST 2 COMPLETED AT 1196 SECONDS INTO EXECUTION ****

******** MUSIC MELODIC PATTERN ANALYSIS *********

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

TEST REQUESTED 6
UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES	36					0	38	0	0	0	43	0	-1	0	
NOTES	43			32 0	0	0	0	0	0	Э	36	38	41	38	
NOTES	33 36				0	0	31	0	0	0	29	0	0	0	
NOTES	28				0	o	30	0	0	Э	-1	0	0	0	
NOTES	65 33				0	0	31	J	0	o	-1	0	0	0	
NOTES	81 30				0	၁	29	0	0	Э	-1	0	າ	0	
NOTES		THR C			52	51	52	o	0	0	52	o	0	0	
NOTES	113 49				0	0	49	0	Э	0	47	o	-1	0	
NOTES	12°					0	42	52	0	0	0	0	၁	0	
ICTES		THRO			44	47	49	0	0	0	53	0	0	0	
NOTES		THRO			0	0	57	0	0	0	-1	0	0	0	
NOTES	17 [°] 45			192 0	0	o	43	0	0	0	0	0	0	0	
NOTES	193 41				0	0	40	o	0	0	0	0	0	0	

NOTES 353 THROUGH 368 39 C O O O O O O 38 O O O O O NOTES 369 THROUGH 384 37 C O O O O O O 36 O O O O O NOTES 385 THROUGH 400 35 O O O O O O O 33 O O O O O NOTES 401 THROUGH 416 35 C O O 37 O O O 38 O O O A2 O NOTES 417 THROUGH 432 44 47 44 42 39 O O O O O O O O O O O O O O NOTES 433 THROUGH 448 0 O 0 49 O 44 O O O O O O O O O O O NOTES 449 THROUGH 464 41 O O O O O O O O O O O O O O O O																	
NOTES 241 THROUGH 256 0 0 50 0 50 0 -1 0 0 0 52 0 52 0 NOTES 257 THROUGH 272 53 C 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 273 THROUGH 288 40 0 0 0 38 0 -1 0 38 0 0 0 33 0 - NOTES 289 THROUGH 304 33 43 0 0 0 0 0 0 0 0 0 0 0 0 40 38 3 NOTES 305 THROUGH 320 40 0 0 0 37 36 37 39 41 0 0 0 47 0 NOTES 337 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 353 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 369 THROUGH 368 37 0 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 401 THROUGH 416 35 C 0 0 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 417 THROUGH 432 44 47 44 42 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TES	OTES						0	0	0	51	0	51	0	-1	0
0 0 50 0 50 0 -1 0 0 0 52 0 52 0 52 0 NOTES 257 THROUGH 272 53 C 0 0 -1 0 0 0 41 0 0 0 0 0 0 NOTES 273 THROUGH 288 40 0 0 0 38 0 -1 0 38 0 0 0 33 0 - NOTES 289 THROUGH 304 33 43 0 0 0 0 0 0 0 0 0 0 0 0 40 38 3 NOTES 305 THROUGH 320 40 0 0 0 44 0 0 0 45 0 0 0 47 0 NOTES 321 THROUGH 336 49 0 0 0 37 36 37 39 41 0 0 0 42 0 NOTES 353 THROUGH 368 39 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 385 THROUGH 384 37 0 0 0 0 0 0 0 33 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 0 38 0 0 0 0 0 0 NOTES 401 THROUGH 416 35 C 0 0 37 0 0 0 38 0 0 0 42 0 NOTES 401 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 488	OTES 2 0	TES	DTES	225 0 0	THRO	UGH O	240 52 0	-1	٥	٥	0	49	0	49	0	-1	0
NOTES 273 THROUGH 288		7ES	UTES					-1	0	0	0	52	0	52	0	0	0
NOTES 289 THROUGH 304 33 43 0 0 0 0 0 0 0 0 0 0 0 0 0 40 38 3 NOTES 305 THROUGH 320 40 0 0 0 44 0 0 0 45 0 0 0 47 0 NOTES 321 THROUGH 336 49 0 0 0 37 36 37 39 41 0 0 0 0 42 0 NOTES 337 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 353 THROUGH 368 39 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 401 THROUGH 416 35 0 0 0 37 0 0 0 38 0 0 0 0 42 0 NOTES 417 THROUGH 432 44 47 44 42 39 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 433 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TES	DTES					0	0	41	0	0	J	0	0	0	0
33 43 0 0 0 0 0 0 0 0 0 0 0 0 0 40 38 3 NOTES 305 THROUGH 320 40 0 0 0 44 0 0 0 0 45 0 0 0 0 47 0 NOTES 321 THROUGH 336 49 0 0 0 37 36 37 39 41 0 0 0 0 42 0 NOTES 337 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 353 THROUGH 368 39 0 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 0 33 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 0 33 0 0 0 0 0 NOTES 401 THROUGH 416 35 0 0 0 37 0 0 0 38 0 0 0 0 42 0 NOTES 417 THROUGH 432 44 47 44 42 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 433 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TES	OTES					-1	0	38	0	0	2	33	0	-1	0
NOTES 321 THROUGH 336 49 0 0 0 37 36 37 39 41 0 0 0 42 0 NOTES 337 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 353 THROUGH 368 39 0 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 36 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 0 33 0 0 0 0 0 NOTES 401 THROUGH 416 35 0 0 0 37 0 0 0 38 0 0 0 42 0 NOTES 417 THROUGH 432 44 47 44 42 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NOTES 433 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		TES	DTES					0	0	0	0	0	0	40	38	35	38
NOTES 337 THROUGH 352 43 0 0 0 -1 0 0 0 41 0 0 0 0 0 NOTES 353 THROUGH 368 39 C 0 0 0 0 0 0 38 0 0 0 0 0 NOTES 369 THROUGH 384 37 0 0 0 0 0 0 0 36 0 0 0 0 0 NOTES 385 THROUGH 400 35 0 0 0 0 0 0 33 0 0 0 0 0 NOTES 401 THROUGH 416 35 C 0 0 37 0 0 0 38 0 0 0 42 0 NOTES 417 THROUGH 432 44 47 44 42 39 0 0 0 0 0 0 0 0 49 0 - NOTES 433 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 0 0 44 0 0 0 0 0		TES	OTES					0	0	45	0	0	o	47	0	0	0
NOTES 353 THROUGH 368 39 C O O O O O O 388 O O O O O NOTES 369 THROUGH 384 37 C O O O O O O O O O O O O O O NOTES 385 THROUGH 400 35 O O O O O O O O O O O O O O O O NOTES 401 THROUGH 416 35 C O O O O O O O O O O O O O O O O O O	OTES 3	TES	OTES	321 49 0	THRO	UGH 0	336 37 3 6	37	39	41	0	3	c	42	0	o	0
39 C O O O O O 38 O O O O O O O O O O O O O	DTES 3	TES	TES	337 43 0	THRO	UGH 0	352 -1 0	0	o	41	3	0	0	0	0	0	0
37 C O O O O O O O O O O O O O O O O O O		TES	TES					0	0	38	0	0	0	0	0	0	0
35 0 0 0 0 0 0 0 33 0 0 0 0 0 0 0 0 0 0		TES	TES					0	3	36	0	0	3	0	0	0	0
35 C O O 37 O O O 38 O O O 42 O NOTES 417 THROUGH 432 44 47 44 42 39 O O O O O O O O 49 O - NOTES 433 THROUGH 448 O O 49 O 44 O O O -1 O 44 O 42 O NOTES 449 THROUGH 464 41 O O O O O O O O O O O O O		res	TES					0	0	33	0	0	0	0	0	0	0
44 47 44 42 39 0 0 0 0 0 0 0 49 0 - NOTES 433 THROUGH 448 0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 0 44 0 0 0 0 0		res	TES					0	0	38	0	0	0	42	0	0	0
0 0 49 0 44 0 0 0 -1 0 44 0 42 0 NOTES 449 THROUGH 464 41 0 0 0 0 0 0 44 0 0 0 0 0 NOTES 465 THROUGH 480		res	TES					0	0	0	0	0	c	49	၁	-1	0
41 0 0 0 0 0 0 0 44 0 0 0 0 0 NOTES 465 THROUGH 480		TES	TES					0	0	-1	0	44	0	42	0	0	0
NOTES 465 THROUGH 480 39 0 0 0-1 0 0 0 28 0 0 0 30 0		re S	TE S					0	0	44	0	0	3	0	0	o	0
	TES 4	ES	TES	46 5 39 0	THRO	UGH 0	480 -1 0	0	0	28	0	0	0	30	2	0	0
NOTES 481 THROUGH 496 31 0 0 0 35 0 0 0 37 40 37 35 32 0	TES 4	'E S	TES	481 31 0	THRO	UGH 0	496 35 0	0	0	37	40	37	35	32	0	0	0

NOTES							-1	0	0	0	42	C	37	0	0	0
NOTES	513 -1	3 T 0	THR (UGH 0	35	528 0	0	0	-1	၁	33	0	38	0	0	0
NOTES	529 31	9 1	THR C	UGH 0	-1	544 0	0	၁	33	0	0	0	-1	၁	0	0
NOTES							0	0	34	0	0	0	-1	0	0	0
.10TES	56) 33	0	THR C	UGH 0	-1	576 0	0	0	32	o	0	э	-1	0	0	o
NOTES	57° 31						55	54	55	0	O	Э	50	0	52	0
NOTES	593 47		THR 0	UGH 0	-1	808	0	0	54	0	0	0	52	0	၁	0
NOTES	60° 51						0	0	45	42	45	47	50	0	o)
NOTES	62 0	5 ¹	THR C	UGH 0	40	540 0	-1	0	38	0	0	o	٥	0	0	Э
NOTES	64) 36						0	0	35	0	0	3	0	0	0	0
NOTES	65 [°] 33					5 7 2 0	0	0	0	0	0	0	43	С	3	Э
NOTES	673 41					88 C	0	0	40	o	0	0	0	0	0	0
NOTES	68 ⁹ 3 8						0	o	42	0	0	0	38	o	0	၁
NOTES	70! 37						0	0	36	0	0	3	0	J	0	o
IOTES	72: 35						0	o	0	o	0	Э	0	0	0	၁
NOTES	73 41						0	9	43	0	0	Э	-1	э	0	0
NOTES	75: 43						3	0	48	0	0	0	-1	0	0	0
NOTES	76°					784 0	0	0	o	0	0)	0	0	0	o

HOTES			SH 800 D 0 0		0	41	0	43	0	46	0	43	ວ
NOTES			GH 816 0 0 0		0	37	o	0	٥	0	0	0	0
NOTES	817 36 C	THRCU 0	GH 832 0 0 0	0	0	34	0	0	Э	0	Э	0	0
NOTES	833 33 0	THROUG O	GH 848 0 31 0	-1	0	31	0	0	Э	26	0	-1	0
NOTES			GH 864 D 0 0		0	0	0	0	0	33	31	28	31
NOTES			GH 880 0 3 7 0		0	38	0	0	Ó	40	0	0	0
NOTES			GH 896 0 53 5 5		58	60	0	56	0	54	0	49	0
NOTES			GH 912 0 39 0		0	-1	Э	0	c	0	0	0	0
NOTES	913 -1 0	THROU	GH 928 0 24 26	29	26	24	0	0	0	-1	0	٥	0
NOTES			GH 944 0 49 51		51	49	0	0	Э	-1	0	0	0
NOTES			GH 9 60 D 23 2 5		25	23	Э	0)	-1	0	0	0
VOTES			GH 9 76 0 30 32		32	30	3	0	Э	-1	0	0	0
NOTES			GH 9 92 0 45 47		47	45	o	0)	-1	0	0	0
NOTES			GH 1008 D 22 24		24	22	0	0	Э	-1	0	0	0
NOTES			GH 1024 2 41 0		Э	-1	o	0	0	36	0	37	0
NOTES			GH 1040 0 0 0		0	43	3	0	0	0	0	-1	0
NOTES	1041 36 0	THROU	GH 1056 0 38 0	-1)	38	0	0	Э	43	0	-1	0
NOTES			GH 1072 0 0 0		0	o	0	0	Э	36	38	41	38

NOTES	1073 T	HR OUGI	1 108	88										
	36 C	0 0	32	0	0	0	31	0	0	Э	29	0	0	0
MOTES	1089 T	HB OUG	4 116	14										
HOTES	27 0	0 0	_		0	0	25	O	0	Э	0	0	0	0
NOTES	1105 T		+ 112 -1		0	Λ	26	٥	0	Δ	-1	0	0	٥
	24 0	0 0	-1	U	U	U	20	U	U	U	-1	U	U	U
NOTES	1121 T									_	_		_	
	29 0	0 0	-1	0	0	0	27	0	0	0	-1	0	0	0
NOTES	1137 T	HROUGI	1 115	52										
	26 0	0 0	-1	0	0	0	25	0	0	Э	-1	0	0	0
JOTES	1152 7	HB OHC		. 0										
AO I E 2	1153 T		-1		0	0	0	0	0	Э	0	0	0	0
NOTES	1169 T		-		_	^	c	^	^	_	^	^	^	^
	0 0	0 0	0	U	0	U	55	0	0)	0	0	0	O
NOTES	1185 T	HROUG	1118	35										
-	-99													

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

The interval tables appearing with the remaining tests of the Hindemith fugue are identical to the tables shown for Test 2. In order to reduce the size of this appendix, these interval tables have been omitted.

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NANA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -EXACT RETROGRADE
WAS BEGUN AT 32 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
1 2 3 4 5 6 7 8 9 10 11 12 13	1 TO 9 1 TO 9 1 TO 9 1 TO 9 5 TO 13 5 TO 13 5 TO 13 5 TO 13 7 TO 17 9 TO 17	RELATED TO	113 TO 125 437 TO 445 509 TO 517 129 TO 137 281 TO 289 435 TO 443 507 TO 515 841 TO 849 125 TO 133 277 TO 285 429 TO 437 501 TO 509 837 TO 845 421 TO 435	6 6 6 6 6 6 6 6	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
15 16 17 18 19 20 21 22 23 24	13 TO 18 17 TO 29 17 TO 29 18 TO 30 29 TO 31 29 TO 31		493 TO 507 420 TO 429 492 TO 501 149 TO 151 301 TO 303 419 TO 421 491 TO 493 613 TO 618 861 TO 863 31 TO 33 138 TO 150	6 6 6 6 6 6 6	3 3 3 3
26 27 28 29 30 31 32 33 34 35	29 TO 31		290 TO 302 418 TO 420 490 TO 492 797 TO 801 850 TO 862 919 TO 921 935 TO 937 951 TO 953 967 TO 969 983 TO 985 999 TO 1001	6 6 6 6 6 6 6 6	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
37 38 39 40 41 42	29 TO 31 29 TO 31 30 TO 32 30 TO 32 30 TO 32 30 TO 32		1010 TO 1012 1071 TO 1073 417 TO 419 489 TO 491 795 TO 799 918 TO 920	6 6 6 6 6	3 3 3 3 3

PATTERN	NOTES	RELAT	ED TO) i	NOTE	E S	TEST	LENGTH
43	30 TO	32		934	TO	936	6	3
44	30 TO	32		9 50	TO	952	6	3
45	30 TO	32		966	TO	968	6	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
46	30 TO	32		982	TO	984	6	3
47	30 TO	32		998	70	1000	6	3
48	30 TO	32 33		1009	T O	1011	6	3
49 50	30 TO 31 TO	32 33		1070	TO	1072 65	6 6	2
51	31 TO	3 3		413	TO	418	6	3
52	31 TO	33		485	TO	490	6	3
53	31 TO	33		529	TO	545	6	3
54	31 TO	33		619	TO	621	6	
55	31 TO	33		793	TO	797	6	3
56	31 TO	33		917	TO	919	6	3
57	31 TO	33		933	TO	935	6	3
58	31 TO	33		949	TO	951	6	3
59	31 TO	33		965	TO	967	6	3
60	31 TO	33		981	TO	983	6	3
61	31 TO	33 33		997	TO	999	6	3
62	31 TO 31 TO	33 33		1069	TO	1071	6	<i>3</i>
63 64	31 TO 32 TO	33 37		1105 409	TO	1121 417	6 6	2
65	32 TO	3 7		481	TO	489	6	3
66	33 TO	41		405	To	413	6	3
67	33 TO	41		477	TO	485	6	3
68	37 TO	45		161	TO	169	6	3
69	37 TO	45		328	TO	333	6	3
70	37 TO	45		401	TO	409	6	333333333333333333333
71	37 TO	45		473	TO	481	6	3
72	37 TO	45		873	TO	8-8 1	6	3
73	37 TO	45		886	TO	888	6	3
74	41 TO	49		157	TO	165	6	3
75 71	41 TO	49		309	TO	317	6	3
76 77	41 TO 41 TO	49 49		326 869	TO TO	328 877	6 6	3 3 3 3
78	41 TO	49		887	TO	889	6	ว ว
**** FOR	49 TD	65,	SEE	29	TO	31	ABOVE ***	-
**** FOR	65 TO	81,	SEE	41	TO	49	ABOVE ***	
79	73 TO	89		329	TO	337	6	3
80	7 3 TO	89		1021	TO	1025	6	3
**** FOR	81 TO	97,	SEE	73	TO	89	ABOVE ***	
81		03		103	TO	105	6	3
82		03		325	TO	327	6	3 3 3
83		03		581	TO	583	6	3
84 85		03 04		583	TO	585 584	6	
85		04 05	CEE	582	TO	584	6 ABOVE ***	3
**** FOR		05• 25	SEE	101 245	TO TO	103		
86 87		25 25		737	TO	253 753	6 6	<i>3</i>
88		25 25		1041	TO	1049	6	3 3 3 3
89		29		243	TO	251	6	3
					_		=	_

PATTERN	NOTES	RELATED T	O NOTE	ES	TEST	LENGTH
90	125 TO 13		753 TO	769	6	3
91 02	125 TO 13		1049 TO	1057	6	3
92 63	129 TO 13 129 TO 13		745 TO 1045 TO	761 1053	6	3 3
93 9 4	137 TO 14		620 TO	629	6 6	3
**** FOR	138 TO 15		31 TO	33	ABOVE ***	
95	149 TO 15		151 TO	153	6	3
96	149 TO 15		303 TO	305	6	3
97	149 TO 15		618 TO	620	6	3
98	149 TO 15		770 TO	795	6	3
9 9	149 TO 15		863 TO	865	6	3
100	149 TO 15	1	1058 TO	1070	6	3
101	150 TO 15	2	302 TO	304	6	3 3 3
102	150 TO 15		617 TO	619	6	
103	150 TO 15		862 TO	864	6	3
**** FOR	151 TO 15		18 TD	30	ABOVE ***	
104	152 TO 15		609 TD	617	6	3
105	152 TO 15		889 TO	893	6	3
106	153 TO 16		605 TO	613	6	3
107	157 TO 16		185 TO	201	6	3
108	157 TO 16		345 TO	361	6	3
109	157 TO 16		443 TO	449	6	3
110	157 TO 16		545 TO	561	6	3
111	157 TO 16		601 TO	609	6	3
112	157 TO 16		633 TO	649	6	2
113	157 TO 16		669 TO	681	6	2
114	157 TO 16 157 TO 16		817 TO 1011 TO	833 1013	6	<i>)</i>
115 116	157 TO 16		1089 TO	1105	6 6	3
117	157 TO 16		1121 TO	1137	6	3 3 3 3 3 3 3 3 3 3 3 3 3
118	161 TO 16		193 TO	209	6	3
119	161 TO 16		265 TO	277	6	3
120	161 TO 16		377 TO	393	6	3
121	161 TO 16		641 TO	657	6	3
122	161 TO 16		673 TO	689	6	3
123	161 TO 16		809 TO	825	6	3 3 3 3 3 3 3
124	161 TO 16		825 TO	837	6	3
125	161 TO 16	9	1077 TO	1085	6	3
126	177 TO 19	3	313 TO	321	6	3
127	177 TO 19		327 TO	329	6	3
128	177 TO 19		393 T 0	405	6	3
129	177 TO 19		885 TO	887	6	3
* * * * FOR	185 TO 20		41 TO	49	ABOVE ***	
**** FOR	193 TO 20		37 TO	45	ABOVE ***	
130	243 TO 25		273 TO	281	6	3
131	243 TO 25		833 TO	841	6	3
**** FOR	245 TO 25		1 TO	9	ABOVE ***	
132	257 TO 27		877 TO	885	6	3
**** FOR	265 TO 27		37 TO	45	ABOVE ***	
**** FOR **** FOR	273 TO 28 277 TO 28		121 TO 125 TO	129 133	4** 3VC&A	
TTTT FUR	211 'U 20	74 366	167 10	F 7 3	AUSTE TTA	•

PATTERN	NOTES	RELATED TO	NOTES	TEST LE	NGTH
**** FOR **** FOR **** FOR **** FOR **** FOR **** FOR **** FOR **** FOR 133 134 135	281 TO 289 289 TO 301 290 TO 302 301 TO 303 302 TO 304 303 TO 305 304 TO 309 305 TO 313 309 TO 317 313 TO 321 313 TO 321 313 TO 321	SEE SEE SEE SEE SEE SEE	129 TO 137 137 TO 149 31 TO 33 149 TO 151 150 TO 152 18 TO 30 152 TO 157 153 TO 161 157 TO 165 337 TO 353 515 TO 523 629 TO 641	ABOVE ****	3 3 3
136 137 138 139 **** FOR **** FOR **** FOR 140 141 142 143	313 TO 321 313 TO 321 313 TO 321 313 TO 325 321 TO 325 321 TO 326 325 TO 327 326 TO 328 327 TO 329 328 TO 337 329 TO 337 329 TO 337 329 TO 337 329 TO 337	SEE SEE	661 TO 673 1081 TO 1089 1085 TO 1097 657 TO 669 257 TO 273 101 TO 103 157 TO 165 313 TO 321 161 TO 169 353 TO 369 361 TO 377 369 TO 385 553 TO 569	6 6 6 ABOVE **** ABOVE **** ABOVE **** ABOVE ****	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
144 145 146 147 148 *** FOR *** FOR *** FOR *** FOR *** FOR	329 TO 337 337 TO 353 345 TO 361 353 TO 369 361 TO 377 369 TO 385 377 TO 393	SEE SEE SEE SEE SEE	561 TO 577 701 TO 713 705 TO 721 1129 TO 1145 1137 TO 1153 177 TO 193 41 TO 49 73 TO 89 73 TO 89 73 TO 89 37 TO 45	6 6 6 6 6 ABOVE **** ABOVE **** ABOVE **** ABOVE ****	3 3 3 3 3
**** FOR 149 150 151 152 153 *** FOR *** FOR *** FOR	393 TO 405 401 TO 409 405 TO 413 405 TO 413 405 TO 413 405 TO 417 409 TO 417 413 TO 418 417 TO 419 418 TO 420 419 TO 421	SEE SEE SEE	313 TO 321 161 TO 169 697 TO 705 801 TO 817 1073 TO 1081 799 TO 809 1072 TO 1077 29 TO 31 30 TO 32 31 TO 33 149 TO 151	ABOVE **** 6 6 6 6 6 ABOVE **** ABOVE **** ABOVE **** ABOVE ****	3 3 3 3
154 155 156 157	420 TO 429 420 TO 429 421 TO 435 421 TO 435		769 TO 793 1057 TO 1069 761 TO 770 1053 TO 1058	6 6 6	3 3 3 3

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	429 TO 437	-		ABOVE ****
**** FOR	435 TO 443		129 TO 137	
**** FOR	437 TO 445	=	113 TO 125	
**** FOR **** FOR	443 TO 449 473 TO 481	•	41 TO 49 161 TO 169	A80VE **** A80VE ****
#*** FOR	477 TO 485		405 TO 413	
**** FOR	481 TO 489		409 TO 417	
**** FOR	485 TO 490	•	29 TO 31	
**** FOR	489 TO 491		30 TO 32	
**** FOR	490 TO 492	, SEE	31 TO 33	ABOVE ****
**** FOR	491 TO 493	• SEE	149 TO 151	ABOVE ****
**** FOR	492 TO 501		420 TO 429	
**** FOR	493 TO 507		421 TO 435	
**** FOR	501 TO 509		125 TO 133	
**** FOR **** FOR	507 TO 515 509 TO 517		129 TO 137 113 TO 125	ABOVE **** ABOVE ****
**** FOR	509 TO 517 515 TO 523		177 TO 193	
158	517 TO 525	*	585 TO 591	6 3
159	525 TO 537		952 TO 965	6 3
**** FOR	529 TO 545		29 TO 31	
**** FOR	545 TO 561	•	41 TO 49	ABOVE ****
**** FOR	553 TO 569	• SEE	73 TO 89	ABOVE ****
**** FOR	561 TO 577	•	73 TO 89	
**** FOR	581 TO 583		101 70 103	ABOVE ****
**** FOR	582 TO 584			ABOVE ****
**** FOR **** FOR	583 TO 585		101 TO 103	
160	601 TO 609 605 TO 613	• SEE	41 TO 49 865 TO 873	6 3
161	609 TO 617		864 TD 869	6 3
**** FOR	613 TO 618			ABOVE ****
**** FOR	617 TO 619			ABOVE ****
**** FOR	618 TO 620			ABOVE ****
**** FOR	619 TO 621	• SEE	29 TO 31	ABOVE ****
162	620 TO 629		849 TO 861	6 3
*** FOR	629 TO 641		177 TO 193	
**** FOR	633 TO 649	·	41 TO 49	
**** FOR **** FOR	641 TO 657 661 TO 673		37 TO 45	ABOVE ****
**** FOR	669 TO 681		41 TO 49	
**** FOR	673 TO 689		37 TO 45	
**** FOR	697 TO 705		33 TO 41	
**** FDR	701 TO 713		73 TO 89	
**** FOR	705 TO 721		73 TO 89	
**** FOR	737 TO 753	• SEE	1 TO 9	
#### FOR	745 TO 761		5 TO 13	
**** FOR	753 TO 769		9 fo 17	
**** FOR	761 TO 770		13 TO 18	
**** FOR	769 TO 793		17 TO 29	
**** FOR *** FOR	770 TO 795 793 TO 797	•	18 TO 30	_
**** FOR	793 TO 797 795 TO 799	-	29 TO 31 30 TO 32	
TTTT FUR	177 10 177	• SEE	30 TO 32	MOUNE TTTT

PATTE	RN	1	NOTE	ES	RELATED	TO 1	NOT	ES	TE:	ST	LENG
* ***	FOR	797	TO	801	. SE	E 31	TO	33	ABOVE	***	k#
***	_	799	TO	809				37	ABOVE		
***		801	TO	817				41	ABOVE		
***	FOR	809	TO	825				45	ABOVE	**	
****	FOR	817	TO	833			TO	49	ABOVE	***	
****	FGR	825	TO	837			TO	45	ABOVE	***	
****		833	TO	841			TO	129	ABOVE	***	* *
****	FOR	837	TO	845				133	ABOVE	***	* *
****	FOR	841	TO	849				137	ABOVE		k *
***	FOR	849	TO	861				149	ABOVE		**
****	FOR	850	TO	862	SE		TO	33	ABOVE	***	**
****	FOR	861	TO	863	, SE	E 149	TO	151	ABOVE	***	**
***	FOR	862	TO	864	SE	E 150	TO	152	ABOVE	***	**
****	FOR	863	TO	865	SE	E 18	TO	30	ABOVE	***	**
****	FOR	864	TO	869	SE			157	ABOVE	**	**
****	FOR	865	TO	873	SE SE	E 153	TO	161	ABOVE		
****	FOR	869	TO	877	SE	E 157	TO	165	ABOVE	***	**
****	FOR	873	TO	881	, SE	E 161	TO	169	ABOVE	**	
***	FOR	885	TO	887				321	ABOVE	***	
***	FOR	886	TO	888			TO	169	ABOVE	**1	
***	FOP	887	TO	889,		E 157		165	ABOVE	**	
***	FOR	889	TO	893				617			
****	FOR	917	TO	919				31	ABOVE		
***	FOR	918	TO	920				32	ABOVE	***	
***	FOR	919	TO	921			TO	33	ABOVE	***	
***	FOR	933	TO	935				31	ABOVE	***	
***		934	TO	936			TO	32	ABOVE		
***		935	TO	937			TO	33	ABOVE		
***		949	TO	951				31	ABOVE		
****		950	TO	952				32	ABOVE	***	
		951	TO	953	SE		TO	33 1045		_	** 3
163 ****		952 965	TO	965 967	SE				ABOVE	5 **:	_
****	FOR	966	TO	968,			TO TO	32	ABOVE		
****		967	TO	969				33	ABOVE		
****		981	TO	983				31	ABOVE		
****		982	TO	984				32	ABOVE		
****	FOR	983	TO	985				33	ABOVE	***	
****		997	TO	999				31	ABOVE		
****		998	TO	1000				32	ABOVE		
***		999		1001			TO	33	ABOVE		
****		1009		1011				32	ABOVE		
****		1010		1012				33	ABOVE		
****	FOR	1011		1013			TO	49	ABOVE	***	
***		1021		1025				337	ABOVE		
****				1045				537			
***				1049			TO	9	ABOVE		
****		1045		1053					ABOVE		
****		1 C49		1057				17	ABOVE		
****		1053		1058				18	ABOVE		**
****	FOR	1057	TO	1069	SE	E 17	TO	29	ABOVE	**:	**

P

PATTERN	NOTE	S RELAT	ED TO	NOTES	5	TES	T LENGTH
**** FOR		1070, 1071,	SEE SEE	18 TO 29 TO	30 31	ABOVE ABOVE	
**** FOR **** FOR	1070 TO	1072, 1073,	SEE	30 TO 31 TO	32 33	· · · · ·	***
**** FOR **** FOR	1072 TO		SEE SEE	32 TO 33 TO	37 41	ABOVE	****
**** FOR **** FOR	1077 TO	1085,	SEE	37 TO 177 TO		ABOVE	***
**** FOR **** FOR	1085 TO	1097, 1105,	SEE	177 TO 41 TO	193 49	ABOVE ABOVE	***
**** FOR **** FOR	• • • •	1121, 1137,	SEE	29 TO 41 TO	31 49	ABOVE ABOVE	
* *** FOR	1129 TO	1145,	SEE	7 3 TO	89	ABOVE	***

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 325 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
164 165	1 TO 13 1 TO 13	435 TO 445 507 TO 517	6 6	4
166	5 TO 17	125 TO 137	6	4
167	5 TO 17	277 TO 289	6	4
168	5 TO 17 5 TO 17	429 TO 443 501 TO 515	6	4
169 170	5 TO 17 5 TO 17	501 TO 515 837 TO 849	6 6	4 4
171	9 TO 18		6	4
172	9 TO 18	493 TO 509	6	4
173	13 TO 29		6	4
174	13 TO 29	492 TO 507	6	4
175	17 TO 30	419 TO 429	6	4
176	17 TO 30	491 TO 501	6	4
177	18 TO 31	138 TO 151	6	4
178 179	18 TO 31 18 TO 31	290 TO 303 418 TO 421	6 6	4 4
180	18 TO 31	490 TO 493	6	4
181	18 TO 31	850 TO 863	6	4
182	29 TO 32	417 TO 420	6	4
183	29 TO 32	489 TO 492	6	4
184	29 TO 32	795 TO 801	6	. 4
185	29 TO 32	918 TO 921	6	4
186	29 TO 32	934 TO 937	6	4
187	29 TO 32	950 TO 953	6	4
188 189	29 TO 32 29 TO 32	966 TO 969 982 TO 985	6 6	4 4
190	29 TO 32	998 TO 1001	6	4
191	29 TO 32		6	4
192	29 TO 32	1070 TO 1073	6	4
193	30 TO 33	413 TO 419	6	4
194	30 TO 33	485 TO 491	6	4
195	30 TO 33	793 TO 799	6	4
196	30 TD 33	917 TO 920	6	4
197 198	30 TO 33 30 TO 33	933 TO 936 949 TO 952	6 6	4 4
199	30 TO 33	965 TO 968	6	4
200	30 TO 33	981 TO 984	6	4
201	30 TO 33	997 TO 1000	6	4
202	30 TO 33	1069 TO 1072	6	4
203	31 TO 37	409 TO 418	6	4
204	31 TO 37	481 TO 490	6	4
205	32 TO 41	405 TO 417	6	4
206	32 TO 41	477 TO 489	6	4
207	33 TO 45	401 TO 413	6	4

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENGTH
208	33 TO 45		473 TO 485	6	4
209	37 TO 49		157 TO 169	6	4
210	37 TO 49		86.9 TO 881	6	4
211 212	101 TO 104		582 TO 585 581 TO 584	6 6	4 4
212	113 TO 129		243 TO 253	6	4
214	125 TO 137		745 TO 769	6	4
215	125 TO 137		1045 TO 1057	6	4
216	137 TO 150		619 TO 629	6	4
217	138 TO 151		618 TO 621	6	4
218	138 TO 151		770 TO 797	6	4
219	138 TO 151		1058 TO 1071	6	4
220	149 TO 152		302 TO 305	6	4
221	149 TO 152		617 TO 520	6	4
222	149 TO 152		862 TO 865	6	4
223 224	150 TO 153		301 TO 304 613 TO 619	6 6	4 4
225	150 TO 153		861 TO 864	6	4
226	150 TO 153		609 TO 618	6	4
227	152 TO 161		605 TO 617	6	4
228	153 TO 165		601 TO 613	6	4
229	157 TO 169		809 TO 833	6	4
230	177 TO 201		309 TO 321	6	4
231	177 TO 201		326 TO 329	6	4
232	185 TO 209		886 TO 889	6	4
233	257 TO 277		873 TO 885	6	4
**** FOR	277 TO 289		125 TO 137	ABOVE ***	
**** FOR	289 TO 302		137 TO 150 138 TO 151	ABOVE ****	
**** FOR **** FOR	290 TO 303 301 TO 304		138 TO 151 149 TO 152	ABOVE ***	
**** FOR	302 TO 305		150 TO 153	ABOVE ***	
**** FOR	303 TO 309		151 TO 157	ABOVE ****	
**** FOR	304 TO 313		152 TO 161	ABOVE ****	
**** FOR	305 TO 317		_	ABOVE ***	;
234	309 TO 321		337 TO 361	6	4
235	309 TO 321	•	629 TD 649	6	4
236	309 TO 321		661 TO 681	6	4
237	309 TO 321		1085 TO 1105	6	4
238	313 TO 325		657 TO 673	6	4
**** FOR	326 TO 329			ABOVE ***	
239	327 TO 333 328 TO 337		1077 TO 1089 369 TD 393	6 6	4 4
240 **** FOR	337 TO 361			ABOVE ***	-
**** FOR	393 TO 409			ABOVE ***	
241	401 TO 413	= -	801 TD 825	6	4
242	401 TO 413		1073 TO 1085	6	4
243	405 TO 417		799 TO 817	6	4
244	405 TO 417		1072 TO 1081	6	4
245	409 TO 418		797 TO 809	6	4
246	409 TO 418		1071 TO 1077	6	4
**** FOR	413 TO 419	SEE	29 TO 32	ABOVE ****	ī

**** FOR 417 TO 420, SEE 30 TO 33 ABOVE ***	
**** FOR 418 TO 421, SEE 138 TO 151 ABOVE *** 247 419 TO 429 769 TO 795 6	
247 419 TO 429 769 TO 795 6 248 419 TO 429 1057 TO 1070 6	4 4
249 420 TO 435 761 TO 793 6	4
250 420 TO 435 1053 TO 1069 6	4
251 421 TO 437 753 TO 770 6	4
252 421 TO 437 1049 TO 1058 6	4
**** FOR 429 TO 443, SEE 125 TO 137 ABOVE ***	**
253 435 TO 445 737 TO 761 6	4
254 435 TO 445 1041 TO 1053 6	4
**** FOR 473 TO 485, SEE 401 TO 413 ABOVE ***	
**** FOR 477 TO 489, SEE 405 TO 417 ABOVE ***	
**** FOR 481 TO 490, SEE 409 TO 418 ABOVE ***	
**** FOR 485 TO 491, SEE 29 TO 32 ABOVE ***	
**** FOR 489 TO 492, SEE 30 TO 33 ABOVE *** **** FOR 490 TO 493, SEE 138 TO 151 ABOVE ***	
**** FOR 491 TO 501, SEE 419 TO 429 ABOVE ***	
**** FOR 492 TO 507, SEE 420 TO 435 ABOVE ***	
**** FOR 493 TO 509, SEE 421 TO 437 ABOVE ***	
**** FOR 501 TO 515, SEE 125 TO 137 ABOVE ***	
**** FOR 507 TO 517, SEE 435 TO 445 ABDVE ***	
255 525 TO 545 951 TO 965 6	4
**** FOR 581 TO 584, SEE 101 TO 104 ABOVE ***	**
**** FOR 582 TO 585, SEE 102 TO 105 ABOVE ***	**
256 601 TO 613 865 TO 877 6	4
257 605 TO 617 864 TO 873 6	4
258 609 TO 618 863 TO 869 6	4
**** FOR 613 TO 619, SEE 149 TO 152 ABOVE *** **** FOR 617 TO 620, SEE 150 TO 153 ABOVE ***	
**** FOR 618 TO 621, SEE 18 TO 31 ABOVE ***	
259 619 TO 629 849 TO 862 6	4
**** FOR 629 TO 649, SEE 177 TO 201 ABOVE ***	•
**** FOR 633 TO 657, SEE 185 TO 209 ABOVE ***	**
**** FOR 661 TO 681, SEE 177 TO 201 ABOVE ***	**
**** FOR 669 TO 689, SEE 185 TO 209 ABOVE ***	* *
**** FOR 737 TO 761, SEE 1 TO 13 ABOVE ***	
**** FOR 745 TO 769, SEE 5 TO 17 ABOVE ***	
**** FOR 753 TO 770, SEE 9 TO 18 ABOVE ***	
**** FOR 761 TO 793, SEE 13 TO 29 ABOVE ***	
**** FOR 769 TO 795, SEE 17 TO 30 ABOVE ***	
**** FOR 770 TO 797, SEE 18 TO 31 ABOVE *** **** FOR 793 TO 799, SEE 29 TO 32 ABOVE ***	
**** FOR 795 TO 801, SEE 30 TO 33 ABOVE ***	
**** FOR 797 TO 809, SEE 31 TO 37 ABOVE ***	
**** FOR 799 TO 817, SEE 32 TO 41 ABOVE ***	
**** FOR 801 TO 825, SEE 33 TO 45 ABOVE ***	
**** FOR 809 TO 833, SEE 37 TO 49 ABOVE ***	
**** FOR 817 TO 837, SEE 185 TO 209 ABOVE ***	
**** FOR 837 TO 849, SEE 125 TO 137 ABOVE ***	
#### FOR 849 TO 862, SEE 137 TO 150 ABOVE ###	**

PATT	ERN	ħ	NOTE	ES	RELATED TO	0 1	NOTE	S	TES	ST.	LENGTH
* ***	FOR	850	TO	863,	SEE	138	TO	151	ABOVE	***	* *
****	FOR	861	TO	864,	SEE	149	TO	152	ABOVE	**	**
****	FOR	862	TO	865.	SEE	150	TO	153	ABOVE	***	**
****	FOR	863	TO	869,		151	TO	157	ABOVE	***	**
****	FOR	864	TO	873,	SEE	152	TO	161	ABOVE	**	**
***	FOR	865	TO	877,	SEE	153	TO	165	ABOVE	**	**
****	FOR	869	TO	881,	SEE	157	TO	169	ABOVE	***	**
***	FOR	885	TO	888,	SEE	327	TO	333	ABOVE	***	**
****	FOR	917	TO	920,	SEE	29	TO	32	ABOVE	**	**
***	FOR	91-8	TO	921,	SEE	30	TO	33	ABOVE	**	**
***	FOR	933	TO	936,	SEE	29	TO	32	ABOVE	***	**
****	FOR	934	TO	937		30	TO	33	ABOVE	**	**
***	FOR	949	TO	952,		29	TO	32	ABOVE	***	**
* ***	FOR	950	TO	953,		30	TO	33	ABOVE	***	**
****	FOR	965	TO	968,		29	TO	32	ABOVE	**	**
****	FOR	966	TO	969,		30	TO	33	ABOVE	***	-
****	FOR	981	TO	984,	SEE	29	TO	32	ABOVE	**	
****	FOR	982	TO	985,	SEE	30	TO	33	ABOVE	***	
****	FOR	997	TO	1000,	SEE	29	TO	32	ABOVE	***	
***	FOR	998	TO	1001,	SEE	30	TO	33	ABOVE	**	
***	FOR	1009	TO	1012,	SEE	30	TO	33	ABOVE	**	
****	FOR	1041	TO	1053,	SEE	1	TO	13	ABOVE	**	
****	FOR	1045	TO	1057	SEE	5	TO	17	ABOVE	***	•
****	FOR	1049	TO	1058,	SEE	9	TO	18	ABOVE	***	
***	FOR	1053	TO	1069,	SEE	13	TO	29	ABOVE	***	
****	FOR	1057	TO	1070,	SEE	17	TO	30	ABOVE	**	
****	FOR	1058	TO	1071,		18	TO	31	ABOVE	***	•
* ***	FOR	1069	TO	1072	SEE	29	TO	32	ABOVE	***	
****	FOR	1070	TO	1073,	SEE	30	TO	33	ABOVE	***	•
* ***	FOR	1071	TO	1077,	SEE	31	TO	37	ABOVE	***	• •
* ***	FOR	1072	TO	1081,	SEE	32	TO	41	ABOVE	***	
****	FOR	1073	TO	1085,	SEE	33	TO	45	ABOVE	• •	•
****	FOR	1085	TO	1105,	SEE	177	CT	201	ABOVE	**	**

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 477 SECONDS INTO EXECUTION.

PATT	ERN	ľ	NOTE	S	RELATED	TO	٨	IOT	E S	TEST	LENGTH
260		1	TO	17			429	TO	445	6	5
26) 26)		1 5	TO TO	17 18			501 421	TO TO	517 443	6 6	5 5
263		5	TO	18			493	TO	515	6	5 5
264		9	TO	29			420	TO	437	6	5
26		9	TO	29			492	TO	509	6	5
26		13	TO	30			419	TO	435	6	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
26		13	TO	30			491	TO	507	6	5
268		17	TO	31			418	TO	429	6	5
269 279		17 18	TO TO	31 32			490 417	TO TO	501 421	6 6	2
27		18	TO	32			489	TO	493	6	5
27		29	TO	33			413	TO	420	6	5
273		29	TO	33			485	TO	492	6	5
274	4	29	TO	33			793	TO	801	6	5
27		29	TO	33			917	TO	921	6	5
27		29	TO	33			933	TO	937	6	5
27		29	TO	33			949	TO	953	6	5 5 5 5 5
278 279		29 29	T0 T0	33 33			965 981	TO TO	969 985	6 6	5 5
280		29	TO	33			997	TO	1001	6	5 5
28		29	TO	33			1069	TO	1073	6	5
282		30	TO	37			409	TO	419	6	5 5 5 5 5 5 5
283		30	TO	37			481	TO	491	6	5
284		31	TO	41			405	TO	418	6	5
28		31	TO	41			477	TO	490	6	5
286		32	TO	45			401	TO	417	6	5
287 288		32 137	TO TO	45 151			473 618	TO TO	489 629	6 6	5 5
289		138	TO	152			617	TO	621	6	5
* ***		138	TO	152	S	EE	138	TO	152		**
290		149	TO	153			301	TO	305	6	5
29		149	TO	153			613	TO	620	6	5
292		149	TO	153			861	TO	865	6	5
293		150	TO	157			609	TO	619	6	5
294		151	TO	161	c		605 151	TO	618	6 ABDVE **	5
* *** 29!		151 152	TO TO	161 d	. 3	EE	601	CT OT	161 617	ABOVE **	5
* ***		289	TO	303	S	EE		TO	151		* *
****	FOR	290	TO	304		EE	138	TO	152		**
****	FOR	301	TO	305		EE	149	TO	153		**
****	FOR	302	TO	309		EE	150	TO	157		**
* ***	FOR	303	TO	313		EE	151	TO	161		**
* ***	FOR	304	TO	317	S	ΕĒ	152	TO	165	ABOVE **	**

PATTERN	NCTES	RELATED TO	O NOTES	TEST LENGTH
296 **** FOR	309 TO 325 309 TO 325		657 TO 681 309 TO 325	6 5 ABOVE ****
257	393 TO 413		1073 TO 1089	6 5
298	401 TO 417		799 TO 825	6 5
299 **** FOR	401 TO 417 401 TO 417		1072 TO 1085 401 TO 417	6 5 ABOVE ****
300	405 TO 418		797 TO 817	6 5
301	405 TO 418		1071 TO 1081	6 5
302	409 TO 419		795 TO 809	6 5
303	409 TO 419		1070 TO 1077	6 5
**** FOR	413 TO 420	, SEE		ABOVE ****
304	417 TO 421		770 TO 799	6 5
305	417 TO 421		1058 TO 1072	6 5
306	418 TO 429		769 TO 797	6 5
307 308	418 TO 429 419 TO 435		1057 TO 1971 761 TO 795	6 5 6 5
308 309	419 TO 435		1053 TO 1070	6 5 6 5
**** FOR	419 TO 435		419 TO 435	
310	420 TO 437		753 TO 793	6 5
311	420 TO 437		1049 TO 1069	
312	421 TO 443		745 TO 770	6 5 6 5 6 5
313	421 TO 443		1045 TO 1058	6 5
314	429 TO 445		737 TO 769	6 5
315	429 TO 445		1041 TO 1057	6 5
**** FOR	473 TO 489			ABOVE ****
**** FOR **** FOR	477 TO 490 481 TO 491		405 TO 418 409 TO 419	
* *** FOR	485 TO 491		29 TO 33	ABOVE ***
**** FOR	489 TO 493		417 TO 421	ABOVE ****
**** FOR	490 TO 501		418 TO 429	
* *** FOR	491 TO 507	-		ABOVE ****
* *** FOR	492 TO 509	• SEE	420 TO 437	ABOVE ****
**** FOR	493 TO 515			ABOVE ****
**** FOR	501 TO 517			ABOVE ****
316	601 TO 617		864 TO 877	6 5
**** FOR	601 TO 617 605 TO 618			ABOVE ****
317 318	605 TO 618 609 TO 619		863 TO 873 862 TO 869	6 5 6 5
**** FOR	613 TO 620			ABOVE ****
319	617 TO 621		850 TO 864	6 5
320	618 TO 629		849 TO 863	6 5
**** FOR	737 TO 769			ABOVE ****
**** FOR	745 TO 770	• SEE	5 TO 18	
**** FOR	753 TO 793			ABOVE ****
**** FCR	761 TO 795		13 TO 30	
**** FDR	769 TO 797	-	17 TO 31	
**** FOR **** FOR	770 TO 799 793 TO 801	•		ABOVE **** ABOVE ****
**** FOR	795 TO 801		30 TO 37	
**** FOR	797 TO 817		31 TO 41	ABOVE ****
**** FDR	799 TO 825		32 TO 45	

PATT	ERN	!	ודטע	ES	RELATED TO	•	NOTE	S	TES	5 T	LENGTH
***	FOR	849	TO	863,	SEE	137	TO	151	ABOVE	***	: *
****	FOR	850	TO	864,	SEE	138	TO	152	ABOVE	***	c a k
***	FOR	861	TO	865	SEE	149	TO	153	ABOVE	***	: *
* ***	FOR	862	TO	869		150	TO	157	ABOVE	***	r *
****	FOR	863	TO	873	SEE	151	TO	161	ABOVE	***	*
****	FOR	864	TO	877,	SEE	152	TO	165	ABOVE	***	:
****	FOR	917	TO	921,	SEE	29	TO	33	ABOVE	***	: *
****	FOR	933	TO	937	SEE	29	TO	33	ABOVE	***	r ak
****	FOR	949	TO	953,	SEE	29	TO	33	ABOVE	***	*
***	FOR	965	TO	969	SEE	29	TO	33	ABOVE	***	*
* ***	FOR	981	TO	985	SEE	29	TO	33	ABOVE	***	*
****	FOR	997	TO	1001.	SEE	29	TO	33	ABOVE	***	r *
****	FOR	1041	TO	1057	SEE	1	TO	17	ABOVE	***	t ak
* ***	FOR	1045	TO	1058,	SEE	5	TO	18	ABOVE	***	:
****	FOR	1049	TO	1069,	SEE	9	TO	29	ABOVE	***	*
****	FOR	1053	TO	1070.	SEE	13	TO	30	ABOVE	***	
* ***		1057		1071,		17	TO	31	ABOVE	***	
****	FOR	1058		1072,	SEE	18	TO	32	ABOVE	***	
****	FOR	1069	TO	1073,	SEE	29	TO	33	ABOVE	***	*
* ***	FOR	1070	TO	1077,	SEE	30	TO	37	ABOVE	***	*
****		1071		1081,		31	TO	41	ABOVE	***	*
****	FOR	1072	TO	1085,	SEE	32	TO	45	ABOVE	***	*

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 626 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENGTH
321 322 323	1 TO 18 1 TO 18 5 TO 29		421 TO 445 493 TO 517 420 TO 443	6 6 6	6 6 6
324 325	5 TO 29 9 TO 30		492 TO 515 419 TO 437	6	6 6
326 327 328	9 TO 30 13 TO 31 13 TO 31		491 TO 509 418 TO 435 490 TO 507	6 6 6	6 6
329 330	17 TO 32 17 TO 32		417 TO 429 489 TO 501	6 6	6 6
331 332 333	18 TO 33 18 TO 33 29 TO 37		413 TO 421 485 TO 493 409 TO 420	6 6 6	6 6 6
334 335 336	29 TO 37 30 TO 41 30 TO 41		481 TO 492 405 TO 419 477 TO 491	6 6 6	6 6
337 338	31 TO 45 31 TO 45		401 TO 418 473 TO 490	6 6	6 6
339 340 341	137 TO 152 138 TO 153 149 TO 157		617 TO 629 613 TO 621 609 TO 620	6 6 6	6 6 6
342 343 **** FOR	150 TO 161 151 TO 165	, SEE	605 TO 619 601 TO 618 137 TO 152	6 6 ABOVE ****	6 6
**** FOR **** FDR	290 TO 305 301 TO 309	SEE SEE	138 TO 153 149 TO 157	ABOVE **** ABOVE ****	
**** FOR **** FOR 344	302 TO 313 303 TO 317 393 TO 417	SEE	150 TO 161 151 TO 165 1072 TO 1089	ABOVE **** ABOVE ****	6
**** FOR 345	393 TO 417 401 TO 418	SEE	393 TO 417 797 TO 825	ABOVE ****	6
346 347 348	401 TO 418 405 TO 419 405 TO 419		1071 TO 1085 795 TO 817 1070 TO 1081	6 6 6	6 6 6
349 350 351	409 TO 420 409 TO 420 413 TO 421		793 TO 809 1069 TO 1077 770 TO 801	6 6 6	6 6 6
352 353	413 TO 421 417 TO 429		1058 TO 1073 769 TO 799	6 6	6 6
354 **** FOR 355	417 TO 429 417 TO 429 418 TO 435		1057 TO 1072 417 TO 429 761 TO 797	6 ABOVE ****	6
356 **** FOR	418 TO 435 418 TO 435		1053 TO 1071	6 ABOVE ****	6

PATTERN	NOTES	RELATED T	O NOTES	TEST LE	NGTH
357	419 TO 43	7	7 53 TO 795	6	6
358	419 TO 43	7	1049 TO 1070	6	6
359	420 TO 44	.3	745 TO 793	6	6
360	420 TO 44		1045 TO 1069	6	6
361	421 TO 44		737 TO 770	6	6
362	421 TO 44		1041 TO 1058	6	6
**** FOR		O, SEE		ABOVE ****	
**** FCR **** FCR		1, SEE 2, SEE			
**** FCR		3, SEE		ABOVE ****	
**** FOR		1, SEE			
**** FOR		7, SEE			
**** FOR		9, SEE			
**** FOR	492 TO 51	5. SEE	420 TO 443	ABOVE ****	
**** FOR		.7, SEE		ABOVE ***	
363	601 TO 61		863 TO 877	6	6
364	605 TO 61		862 TO 873	6	6
365	609 TO 62		861 TO 869	6	6
366 34 7	613 TO 62		850 TO 865	6	6
367 **** FOR	617 TO 62 617 TO 62		849 TO 864 617 TO 629	6 ABOVE ****	6
**** FOR		9, SEE			
**** FOR		3, SEE			
**** FOR		5, SEE			
**** FOR		7, SEE		ABOVE ***	
**** FOR		9, SEE			
**** FOR	770 TO 80	1. SEE		ABOVE ****	
**** FOR		9, SEE		ABOVE ****	
**** FOR		7, SEE		ABOVE ****	
**** FOR		5. SEE			
**** FOR		4. SEE			
**** FOR		SEE			
**** FOR **** FOR	861 TO 86 862 TO 87	9, SEE		ABOVE **** ABOVE ****	
**** FOR	863 TO 87			ABOVE ****	
**** FOR				ABOVE ****	
**** FOR				ABOVE ****	
**** FOR	1049 TO 107	O. SEE		ABOVE ***	
**** FOR				ABOVE ***	
	1057 TO 107			ABOVE ***	
**** FOR				ABOVE ***	
**** FOR					
**** FOR					
**** FOR	1071 TO 108	5, SEE	31 TO 45	ABOVE ***	

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 770 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
368 369	1 TO 29	•	420 TO 445 492 TO 517	6 6	7 7
370	5 TO 30		419 TO 443	6	7
371	5 TO 30		491 TO 515	6	7
372	9 TO 31		418 TO 437	6	7
3 7 3	9 TO 31		490 TO 509	6	7
374 375	13 TO 32 13 TO 32		417 TO 435 489 TO 507	6	7
375 376	13 TO 32 17 TO 33		489 TO 507 413 TO 429	6 6	7 7
377	17 TO 33		485 TO 501	6	7
378	18 TO 37		409 TO 421	6	7
379	18 TO 37		481 TO 493	6	ż
380	29 TO 41		405 TO 420	6	7
381	29 TO 41		477 TO 492	6	7
382	30 TO 45		401 TO 419	6	7
383	30 TO 45		473 TO 491	6	7
384	137 TO 153		613 TO 629	6	7
385	138 TO 157		609 TO 621	6	7
386	149 TO 161		605 TO 620	6	7
387	150 TO 165		601 TO 619	6	7
388	393 TO 418		1071 TO 1089	6	7
389	401 TO 419		795 TO 825	6	7
390	401 TO 419		1070 TO 1085	6	7
391 3 9 2	405 TO 420 405 TO 420		793 TO 817 1069 TO 1081	6	7 7
393	409 TO 421	4	770 TO 809	6 6	7
394	409 TO 421	1	170 TO 107	6	7
395	413 TO 429		769 TO 801	6	7
396	413 TO 429		1057 TO 1073	6	ż
397	417 TO 435		761 TO 799	6	7
398	417 TO 435		1053 TO 1072	6	7
399	418 TO 437		753 TO 797	6	7
400	418 TO 437	1	LO49 TO 1071	6	7
401	419 TO 443		745 TO 795	6	7
402	419 TO 443		1045 TO 1070	6	7
403	420 TO 445		737 TO 793	6	7
404	420 TO 445		1041 TO 1069	6	7
405	601 TO 619		862 TO 877	6	7
406	605 TO 620		861 TO 873	6	7
407	609 TO 621		850 TO 869	6	7
4C8	613 TO 629		849 TO 865	6	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 789 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
409	1 TO 30		419 TO 445	6	8
410	1 TO 30		491 TO 517	6	8
411	5 TO 31		418 TO 443	6	8
412	5 TO 31		490 TO 515	6	8
413	9 TO 32		417 TO 437	6	8
414	9 TO 32		489 TO 509	6	8
415	13 TO 33		413 TO 435	6	8
416	13 TO 33		485 TO 507	6	8
417	17 TO 37		409 TO 429	6	8
418	17 TO 37		481 TO 501	6	8
419	18 TO 41		405 TO 421	6	8
420	18 TO 41		477 TO 493	6	8
421	29 TO 45		401 TO 420	6	8
422	29 TO 45		473 TO 492	6	8
423	137 TO 157		609 TO 629	6	8
424	138 TO 161		605 TO 621	6	8
425	149 TO 165		601 TO 620	6	8
426	393 TO 419	1	.070 TO 1089	6	8
427	401 TO 420		79 3 TO 825	6	8
428	401 TO 420	1	.069 TO 1085	6	8
429	405 TO 421		770 TO 817	6	8
430	405 TO 421	1	.058 TO 1081	6	8
431	409 TO 429		769 TO 809	6	8
432	409 TO 429	1	.057 TO 1077	6	8
433	413 TO 435		761 TO 801	6	8
434	413 TO 435	1	.053 TO 1073	6	8
435	417 TO 437	_	753 TO 799	6	8
436	417 TO 437	1	.049 TD 1072	6	8
437	418 TO 443		745 TO 797	6	8
438	418 TO 443	1	.045 TO 1071	6	8
439	419 TO 445	_	737 TO 795	6	8
440	419 TO 445	1	.041 TO 1070	6	8
441	601 TO 620		861 TO 877	6	8
442	605 TO 621		850 TO 873	6	8
443	609 TO 629		849 TO 869	6	8

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 807 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTES	TEST	LENGTH
444		31	418 TO 445	6	9
445		31	490 TO 517	6	9
446		32	417 TO 443	6	9
447		32	489 TO 515	6	9
448		33	413 TO 437	6	9
449		33	485 TO 509	6	9
450		37	409 TO 435	6	9
451		37	481 TO 507	6	9
452		41	405 TO 429	6	9
453		+1	477 TO 501	6	9
454		45	401 TO 421	6	9
455		+5	473 TO 493	6	9
456		51	605 TD 629	6	9
457		55	601 TO 621	6	9
458		20	1069 TO 1089	6	9
459		21	770 TO 825	6	9
460	401 TO 4	21	1058 TO 1085	6	9
461	405 TO 4	29	769 TO 817	6	9
462	405 TO 4	29	1057 TO 1081	6	9
463	409 TO 4	35	761 TO 809	6	9
464	409 TO 4	35	1053 TO 1077	6	9
465	413 TO 4	37	7 53 TO 801	6	9
466	413 TO 4	3 7	1049 TO 1073	6	9
467	417 TO 4	43	745 TO 799	6	9
468	417 TO 4	43	1045 TO 1072	6	9
469	418 TO 4	45	737 TO 797	6	9
470	418 TO 4	45	1041 TD 1071	6	9
471	601 TO 6	21	850 TO 877	6	9
472		29	849 TO 873	6	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 825 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTES	TEST	LENGTH
473	1 TO	32	417 TO 445	6	10
474	î TO	32	489 TO 517	6	10
475	5 TO	33	413 TO 443	6	10
476	5 TO	33	485 TO 515	6	10
477	9 TO	37	409 TO 437	6	10
478	9 TO	37	481 TO 509	6	10
479	13 TO	41	405 TO 435	6	10
480	13 TO	41	477 TO 507	6	10
481	17 TO	÷5	401 TO 429	6	10
482	17 TO	1 5	473 TO 501	6	10
483		55	601 TO 629	6	10
484	393 TO 4	21	1058 TO 1089	5	10
485	401 TO 4	29	769 TO 825	6	10
486		29	1057 TO 1085	6	10
487	405 TO 4	35	761 TO 817	6	10
488	405 TO 4	35	1053 TO 1081	6	10
489	409 TO 4	37	7 53 TO 809	6	10
490	409 TO 4	37	1049 TO 1377	6	10
491	413 TO 4	43	745 TO 801	6	10
492	413 TO 4	+3	1045 TO 1073	6	10
493		•5	737 TO 799	6	10
494	417 TO 4	•5	1041 TO 1072	6	10
495	601 TO 6	29	849 TO 877	6	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 842 SECONDS INTO EXECUTION.

PATTERN	NCTE	S	RELATED	TO	NOT	ES	TEST	LENGTH
496	1 TO	33		41	.3 TO	445	6	11
497	1 TO	33		48	35 TO	517	6	11
498	5 TO	37		4(9 TO	443	6	11
499	5 TO	37		48	1 TO	515	6	11
500	9 TO	41		4()5 TO	437	6	11
501	9 TO	41		4	77 TO	509	6	11
502	13 TO	45		40	1 TO	435	6	11
503	13 TO	45		4	73 TO	507	6	11
504	393 TO	429		105	7 TO	1089	6	11
505	401 TO	435		76	1 TO	825	6	11
506	401 TO	435		109	3 TO	1085	6	11
507	405 TO	437		75	3 TO	817	6	11
5 C 8	405 TO	437		104	9 TO	1081	6	11
509	409 T.O	443		74	5 TO	809	6	11
510	409 TO	443		104	5 TO	1077	6	11
511	413 TO	445		73	7 TO	801	6	11
512	413 TO	445		104	1 TO	1073	6	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 858 SECONDS INTO EXECUTION.

PATTERN	NOTES	,	RELATED	TO	N	TOP	ES	TEST	LENGTH
							_		
513	1 70	37			409	TO	445	6	12
514	1 TO	37			481	TO	517	6	12
515	5 TO	41			405	TO	443	6	12
516	5 TO	41			477	TO	515	6	12
517	9 TO	45			401	TO	437	6	12
518	9 TO	45			473	TO	509	6	12
519	393 TO	435		1	.053	TO	1089	6	12
520	401 TO	437			753	TO	825	6	12
521	401 TO	437		1	049	TO	1085	6	12
522	405 TO	443			745	TO	817	6	12
523	405 TO	443		1	.045	TO	1081	6	12
524	409 TO	445			737	TO	809	6	12
525	409 TO	445		1	.041	TO	1077	6	12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 875 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOT	res	TEST	LENGTH
526	1 TO 41	405 To	445	6	13
52 7	1 TO 41	477 TO	517	6	13
528	5 TO 45	401 TO	443	6	13
529	5 TO 45	473 TO	515	6	13
530	393 TO 437	1049 TO	1089	6	13
531	401 TO 443	745 TO	825	6	13
532	401 TO 443	1045 TO	1085	6	13
533	405 TO 445	737 TO	817	6	13
534	405 TO 445	1041 TO	1081	6	13

SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 891 SECONDS INTO EXECUTION.

PATTERN	ħ	NOTE	S	RELATED	TO i	TOP	E\$	TEST	LENGTH
535	1	TO	45		401	TO	445	6	14
536	1	TO	45		473	TO	51 7	5	14
537	393	TO	443		1045	TO	1089	6	14
5 38	401	TO	445		737	TO	825	6	14
539	401	CT	445		1041	TO	1085	6	14

SEARCH FOR PATTERNS OF 15 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 908 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	RELATED TO NOTES		
540	393 TO 44	5 10	041 TO 1089	6	15

SEARCH FOR PATTERNS OF 16 NOTES IN LENGTH -EXACT RETROGRADE WAS BEGUN AT 924 SECONDS INTO EXECUTION.

PATTERN NOTES PELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 540 PATTERNS LOCATED.

*** TYPE II LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE EXACT RETROGRADE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern		
JRIGINAL PATTERN	393 TO 445	2	15		
SUBPATTERN	405 TO 413	4	3		

**** TEST 6 COMPLETED AT 1033 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS ********

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

TEST REQUESTED 12 UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES	36		38 (0	38	0	0	0	43	0	-1	0
NOTES	17 43 3		0 (0	0	э	0	0	36	38	41	38
NOTES			32 (0	31	0	0	0	29	0	0	O
NOTES			-1 (0	30	9	0	Э	-1	0	0	c
NOTES			-1 (0	31	0	0	0	-1	0	0	0
NOTES			-1 (0	29	9	0	Э	-1	0	Э	0
NOTES			112 52 51	51	52	0	0	0	52	0	0	o
NOTES			128 -1 (0	49	0	0	0	47	0	-1	0
NOTES			144 42 (0	42	52	0	o	0	0	0	0
NOTES			16(49 4)	47	49	0	0	0	53	ງ	0	0
NOTES	161 54		176 56 (0	57	0	0	0	-1	o	0	0
NOTES	177 45		193	0	43	0	0	0	0	0	0	0
NOTES			201	3	40	0	0	٥	0	0	0	0

NOTES		C			800 0	0	0	41	0	43	0	46	0	43	0
NOTES	801 41			DUGH 0		0	0	37	0	0	၁	0	0	0	0
NOTES	817 36					0	٥	34	0	0	0	0	0	0	o
NOTES	833 33					-1	0	31	o	0	Э	26	0	-1	0
NOTES	849 26 3					0	0	0	0	0	3	3 3	31	28	31
NOTES	865 33				083 0		0	38	0	0	0	40	0	0	0
NOTES	881 41					57	58	60	0	56	0	54	0	49	0
VOTES	897 46					35	0	71	0	0	0	0	0	0	0
NOTES	913 -1					29	26	24	0	0	0	-1	0	0	0
NOTES				DUGH O		54	51	49	0	0	0	-1	0	0	0
NOTES				DUGH O		28	25	23	0	0	c	-1	0	0	0
VOTES				DUGH 0	976 32	35	32	30	0	0	Э	-1	0	0	0
NOTES	577 0			OUGH O		50	47	45	0	0	Э	-1	0	0	0
NOTES	993 0			OUGH O		27	24	22	0	0	0	-1	С	0	0
NOTES	1009 44					0	0	-1	0	0	0	36	0	37	0
NOTES	1025 38	_	_		040 0	-1	0	43	0	0	٥	0	0	-1	0
NOTES	1041 36					-1	0	38	0	0	0	43	0	-1	0
NOTES	105 43				0 7 2 0	0	0	0	0	0	၁	36	38	41	38

NOTES	1073 THROUGH 1088 36 0 0 0 32 0	0	0 31	0	0	0 29	0	0	0
NOTES	1089 THRCUGH 1104 27 0 0 0 0 0	0	0 25	0	0	0 0	0	0	0
NOTES	1105 THROUGH 1120 24 0 0 0 -1 0	0) 26	0	0	0 -1	0	0	0
NOTES	1121 THROUGH 1136 29 0 0 0 -1 0	0	0 27	Ó	0	0 -1	0	0	0
NOTES	1137 THROUGH 1152 26 0 0 0 -1 0	0) 25	0	0	J -1	0	0	0
NOTES	1153 THROUGH 1168 24 0 0 0 -1 0	0	0 0	0	0	0 0	0	0	0
NOTES	1169 THROUGH 1184		0 55				n	0	2
-	1185 THROUGH 1185	J		J		3	·	•	J

THE FCLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 34 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOTES	TEST	LENGTH
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 TO 9 5 TO 13 9 TO 17 13 TO 18 17 TO 29 18 TO 30 29 TO 31 29 TO 32 30 TO 32 31 TO 33 31 TO 33 31 TO 33 31 TO 33	1041 TO 1049 1045 TO 1053 1049 TO 1057 1053 TO 1058 1057 TO 1069 1058 TO 1070 917 TO 919 933 TO 935 949 TO 951 965 TO 967 981 TO 983 997 TO 999 1069 TO 1071 417 TO 419 489 TO 491 918 TO 920 934 TO 936 950 TO 952 966 TO 968 982 TO 984 998 TO 1000 1009 TO 1011 1070 TO 1072 919 TO 921 935 TO 937 951 TO 953 967 TO 969 983 TO 985	12 12 12 12 12 12 12 12 12 12 12 12 12 1	333333333333333333333333333333333
29 30 31 32	31 TO 33 31 TO 33 32 TO 37 33 TO 41	999 TO 1001 1071 TO 1073 1072 TO 1077 1073 TO 1081	12 12 12 12	3 3 3 3
33 34 35 36 37	37 TO 45 41 TO 49 49 TO 65 49 TO 65 57 TO 73	1077 TO 1085 601 TO 609 529 TO 545 1105 TO 1121 537 TO 553	12 12 12 12 12	3 3 3 3
38 39 40 41 42	57 TO 73 65 TO 81 65 TO 81 65 TO 81 65 TO 81	1113 TO 1129 545 TO 561 817 TO 833 1089 TO 1105 1121 TO 1137	12 12 12 12 12	3 3 3 3

PATTERN	NCTES		RELATED '	ro	NOT	ES	TEST	LENGTH
43	73 TO	89		553	TO	569	12	3
44	73 TO	89		561	TO	577	12	3
45	73 TO	89		705	TO	721	12	3 3 3 3 3
46	73 TO	89		1129	TO	1145	12	3
47	7 3 TO	89		1137		1153	12	
**** FOR	81 TO	97	SEI			89	ABOVE ***	*
48	89 TO	101		569		581	12	3
49	97 TO	102		577		582	12	3
50	101 TO	103		325		327	12	3
51	101 TO	103		581		583	12	3
52	102 TO	104		582		584	12	3
53	103 TO	105		583		585	12	3
54	121 TO	129		273		281	12	3
55	121 TO	129		833		841	12	3
56	125 TO	133		277		285	12	3
57	125 TO	133		837		845	12	3
,58	129 TO	137		28 1		289	12	3
59	129 TO	137		841		849	12	3
60	133 TO	138		285		290	12	3
61	133 TO	138		845		850	12	3
62	137 TO	149		289		301	12	3
63	137 TO	149		849		861	12	3
64	138 TO	150		290		302	12	3
65	138 TO	150		850		862	12	33333333333333333333333333
66	149 TO	151		301		303	12	3
67	149 TO	151		861		863	12	3
68	150 TO	152		302		304	12	3
69	150 TO	152		617		619	12	3
7C	150 TO	152		862		864	12	3
71	151 TO	153		303		375	12	3
72	151 TO 152 TO	153		863	TO	865 309	12 12	3
73		157						_
74	152 TO	157			TO	869	12	3
75	153 TO 153 TO	161 161		305	TO TO	313 873	12 12	3
76	153 TO 157 TO	165		309		317	12	3 3
77	157 TO	165		869		877	12	2
78 70	161 TO	169		401		409	12	3 3
79	161 TO	169		473		481	12	2
80	161 TO	169			TO	881	12	3
<i>8</i> 1	165 TO	177			TO	265	12	ر م
82	177 TO	193		_	TO	353	12	3
8 <i>3</i>	185 10	201			TO	361	12	á
8 4	185 TO	201			TO	649	12	3
<i>85</i>	193 TO	209		641		65 7	12	3 3 3 3 3 3
86 07	219 TO	227			TO	243	12	3
87	221 TO	229		237		245	12	3
88 *** FOR	235 TO	243	SE				ABOVF ***	
*** FOR	237 TO	245					ABOVE ***	
*** FOR	253 TO	265				177		
89	265 TO	277			TO	837	12	3
07								

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENGTH
**** FOR	273 TO 281		121 TO 129		
**** FOR	277 TO 285		125 TO 133	ABOVE ***	
**** FOR	281 TO 289		129 TO 137	ABOVE ****	
**** FOR	285 TO 290		133 TO 138	ABOVE ****	
**** FOR	289 TO 301		137 TO 149	ABOVE ****	
**** FOR	290 TO 302		138 TO 150 149 TO 151	ABOVE ****	
**** FOR **** FOR	301 TO 303			ABOVE ****	
**** FOR	302 TO 304 303 TO 305		150 TO 152 151 TO 153	ABOVE ****	
**** FOR	304 TO 309		152 TO 157	ABOVE ****	
**** FOR	305 TO 313		153 TO 161	ABOVE ****	
**** FOR	309 TO 317		157 TO 165	ABOVE ****	
**** FOR	325 TO 327		101 TO 103	ABOVE ****	
**** FOR	337 TO 353		177 TO 193	ABOVE ***	
**** FOR	345 TO 361		185 TO 201	ABOVE ****	
90	353 TO 369		369 TO 385	12	3
**** FOR	361 TO 377		353 TO 369	ABOVE ****	
**** FOR	369 TO 385		353 TO 369	ABOVE ****	
91	377 TO 393		673 TO 689	12	3
92	377 TO 393		809 TO 825	12	3
**** FOR	401 TO 409	, SEE	161 TO 169	ABOVE ***	
93	405 TO 413		477 TO 485	12	3
94	409 TO 417		481 TO 489	12	3
95	413 TO 418		485 TO 490	12	3
**** FOR	417 TO 419	 SEE 	30 TO 32	ABOVE ****	
96	418 TO 420		490 TO 492	12	3
97	418 TO 420		1010 TO 1012	12	3
98	419 TO 421		491 TO 493	12	3
99	420 TO 429		492 TO 501	12	3
100	421 TO 435		493 TO 507	12	3
101	429 TO 437		501 TO 509	12	3
102	435 TO 443		507 TO 515	12	3
103	437 TO 445		509 TO 517	12	3
*** FOR	473 TO 481		161 TO 169	ABOVE ****	
*** FOR	477 TO 485		405 TO 413	ABOVE ****	
*** FCR	481 TO 489 485 TO 490		409 TO 417	ABOVE ****	
*** FOR	485 TO 490 489 TO 491		413 TO 418 30 TO 32	ABOVE ****	
	490 TO 491		418 TO 420	ABOVE ****	
	491 TO 493		419 TO 421	ABOVE ****	
** FOR	492 TO 501		420 TO 429	ABOVE ****	
** FOR	493 TO 507		421 TO 435	ABOVE ***	
** FOR	501 TO 509		429 TO 437	ABOVE ****	
* FOR	507 TO 515		435 TO 443	ABOVE ****	
* FOR	509 TO 517		437 TO 445	ABOVE ****	
# FOR	529 TO 545			ABOVE ****	
* FOR	537 TO 553		57 TO 73	ABOVE ****	k
FOR	545 TO 561		65 TO 81	ABOVE ****	t
FOR	553 TO 569		73 TO 89	ABOVE ****	k
FOR	561 TO 577		73 TO 89	ABOVE ***	k .
FOR	569 TO 581	• SEE	89 TO 101	ABOVE ****	

PATTE	ERN	1	NCTE	S	RELATED T	O 1	NOTE	S	TES	T	LENGTH
****	FOR	577	TO	582,	SEE	97	T 0	102	ABOVE	***	**
****	FOR	581	TO	583,	SEE	101	TO	103	ABOVE	***	**
***	. • • • • • • • • • • • • • • • • • • •	582	TO	584 🕶		102	TO		ABOVE		
****		583	TO	585•		103	TO		ABOVE		
***		601	TO	609,		41	TO	-	ABOVE		
****	-	617	TO	619,	SEE	150	TO		ABOVE		
104		629	TO	641		1085	TO		12		3
***		633	TO	649,		185	TO		ABOVE		
****		641	TO	657,		193	TO		ABOVE		
***	. •	673	TO	689,		377	TO	393	ABOVE		
****		705	TO	721,		73	TO	89			
****		809	TO	825,		377	TO	393	ABOVE		
****		817	TO	833,		65 265	TO TO	81 277	ABOVE		
****		825 833	TO	837, 841,		121	TO		ABOVE		
****		8 37	TO	845,		125	TO		ABOVE		
****		841	TO	849,			TO		ABOVE		
	FOR	845	TO	850,		133	TO	_	ABOVE		
****	FOR	849	TO	861,		137	TO	149			
* ***	FOR	850	ŤO	862,		138	TO	150			
****	FOR	861	TO	863,		149	TO	151			
****	FOR	862	TO	864,		150	TO		ABOVE		
* * * *	FOR	863	TO	865,		151	TO		ABOVE		
****	FOR	864	TO	869,			TO		ABOVE		
***		865	TO	873,		153	TO		ABOVE		
****	FOR	869	TO	877,		157	TO		ABOVE		
****	FOR	873	TO	881,	SEE	161	TO	169	ABOVE	***	k ‡
105	5	895	TO	899		899	ŦO	903	12	2	3
****		899	TO	903,		89 5	TO	899	ABQVE	***	**
***		917	TO	919,		29	TO	31	ABOVE		
***	-	918	TO	920,		30	TO		ABOVE		
****		919		921,		31			ABOVE		
****		933	TO	935,			TO		ABOVE		
****	FOR	934	TO	936,		30	TO		ABOVE		
****	FOR	935	TO	937		31	TO	33	ABOVE		
****		949	TO	951,		29	TO	31	ABOVE		
****	FOR	950	TO	952,		30	TO	32	ABOVE		
****	FOR FOR	951 965	TO TO	953 , 967,		31 29	TO TO	33 31	ABOVE		
****	FOR	966	TO	968		30	to	32	ABOVE		
****	FOR	967	TO	969,		31	TO	33	ABOVE		
****	FOR	981	TO	983,		29	TO	31	ABOVE		
****	FOR	982	TO	984,		30	TO	32	ABOVE		
****	FOR	983	TO	985,		31	TO	33	ABOVE		•
* ***	FOR	997	TO	999•		29	TO	31	ABOVE		
****	FOR	998	TO	1000,		30	TO	32	ABOVE		
* * * *		999	TO	1001,		31	TO	33	ABOVE		
****		1009	TO	1011,		30	TO		ABOVE		k*
* ***	FOR	1010	TO	1012,		418	TO		ABOVE		**
****	FOR	1041	TO	1049,	SEE	1	TO	9	ABOVE		
****	FOR	1045	TO	1053,	SEE	5	TO	13	ABOVE	***	k *

PATT	ERN		NCTE	S	RELATED	TO	٨	IOTE	S	TES	T L	ENGTH
****	FOR	1049	TO	1057,	SE	E	9	TO	17	ABOVE	****	:
****	FOR	1053	TO	1058,	SE	E	13	TO	18	ABOVE	****	1
****	FOR	1057	TO	1069,	SE	E	17	TO	29	ABOVE	****	:
****	FOR	1058	70	1070,	SE	E	18	TO	30	ABOVE	***	:
****	FOR	1069	TO	1071,	SE	Ε	29	TO	31	ABOVE	***	:
****	FCR	1070	TO	1072,	SE	<u> </u>	30	TO	32	ABOVE	***	:
****	FOR	1071	TO	1073,	SE	E	31	TO	33	ABOVE	****	
****	FOR	1072	TO	1077,	SE	Ε	32	TO	37	ABOVE	***	:
* ***	FOR	1073	TO	1081,	SE	E	33	Τ0	41	ABOVE	***	:
****	FOR	1077	TO	1985,	SE	Ε	37	TO	45	ABOVE	***	:
* ***	FOR	1085	TO	1097	SE	Ε	629	TO	641	ABOVE	****	
****	FOR	1089	TO	1105,	SE	E	65	TO	81	ABOVE	****	:
****	FOR	1105	TO	1121,	SE	E	49	TO	65	ABOVE	****	;
****	FOR	1113	TO	1129,	SE	E	57	CT	73	ABOVE	****	:
****	FOR	1121	TO	1137,	SE	E	65	TO	81	ABOVE	***	:
****	FOR	1129	TO	1145,	SE	Ε	73	TO	89	ABOVE	****	

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 333 SECONDS INTO EXECUTION.

PATTERN	NOTES	•	RELATED	TO	NOT	ES	TEST	LENGTH
106	1 70	13		1041	TO	1053	12	4
107	5 TO	17		1045	TO	1057	12	4
108	9 TO	18		1049	TO	1058	12	4
109	13 TO	29		1053	TO	1069	12	4
110	17 TO	30		1057	TO TO	1070	12	4
111 112	18 TO 29 TO	31 32		1058 917		1071 920	12 12	4 4
112	29 TO	32		933	TO	936	12	4
114	29 TO	32		949	TO	952	12	4
115	29 TO	32		965	T 0	968	12	4
116	29 TO	32		981	TO	984	12	4
117	29 TO	32		997	TO	1000	12	4
118	29 TO	32		1069	TO	1072	12	4
119	30 TO	33		918	TO	921	12	4
120	30 TO	33		934	TO	937	12	4
121	30 TO	33		950	TO	953	12	4
122	30 TO	33		96 6	TO	969	12	4
123	30 TO	33		982	TO	985	12	4
124	30 TO	33		998	TO	1001	12	4
125	30 TO	33		1070	TO	1073	12	4
126	31 TO	37		1071	TO	1077	12	4
127	32 TO	41		1072	TO	1081	12	4
128	33 TO	45 72		1073	TO	1085	12	4
129 130	49 TO 49 TO	73 73		529 1105	TO TO	553 112 9	12 12	4 4
131	57 TO	81		537	TO	561	12	4
132	57 TO	81		1113	TO	1137	12	4
133	65 TO	89		545	TO	569	12	4
134	65 TO	89		1121	TO	1145	12	4
135	73 TO	97		553	TO	577	12	4
136	73 TO	97		1129	TO	1153	12	4
137	81 TO	101		561	TO	581	12	4
138	89 TO	102		569	TO	582	12	4
139	97 TO	103		577		583	12	4
140	101 TO	104		581	TO	584	12	4
141	102 TO	105		582	TO	585	12	4
142	121 10	133		273	TO	285	12	4
143	121 TO	133		833	TO	845	12	4
144	125 TO	137		277	TO	289	12	4
145	125 TO	137		837	TO	849	12	4
146	129 TO 129 TO	138 138		281	TO TO	290	12	4
147	129 TO 133 TO	149		841 285		850 301	12 12	4 4
148	133 TO	149		845		861	12	4
149		- 1 /		017				7

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
150	137 TO 150	ľ	289 TO 302	12 4
151	137 TO 150		849 TO 862	12 4
152	138 TO 151		290 TO 303	12 4
153	138 TO 151		850 TO 863	12 4
154	149 TO 152		301 TO 304	12 4
155	149 TO 152		861 TO 864	12 4
156 157	150 TO 153 150 TO 153		302 TO 305 862 TO 865	12 4 12 4
158	151 TO 157		303 TO 309	12 4
159	151 TO 157		863 TO 869	12 4
160	152 TO 161		304 TO 313	12 4
161	152 TO 161		864 TO 873	12 4
162	153 TO 165		305 TO 317	12 4
163	153 TO 165		865 TO 877	12 4
164	157 TO 169		869 TO 881	12 4
165	177 TO 201		337 TO 361	12 4
166	185 TO 209		633 TO 657	12 4
167 168	185 TO 209 219 TO 229		633 TO 657 235 TO 245	12 4 12 4
**** FOR	235 TO 245			ABOVE ***
169	265 TO 281		825 TO 841	12 4
**** FOR	273 TO 285			ABOVE ****
**** FOR	277 TO 289			ABOVE ****
**** FOR	281 TO 290	• SEE	129 TO 138	ABOVE ****
**** FOR	285 TO 301		133 TO 149	
**** FOR	289 TO 302		137 TO 150	
**** FOR	290 TO 303		138 TO 151	ABOVE ****
**** FOR	301 TO 304			ABOVE ***
**** FOR **** FOR	302 TO 305			ABOVE **** ABOVE ****
**** FOR	303 TO 309 304 TO 313			ABOVE ***
**** FOR	305 TO 317			ABOVE ****
**** FOR	337 TO 361			
170	401 TO 413		473 TO 485	12 4
171	405 TO 417	•	477 TO 489	12 4
172	409 TO 418		481 TD 490	12 4
173	413 TO 419		485 TO 491	12 4
174	417 TO 420		489 TD 492	12 4
175	417 TO 420 418 TO 421		1009 TO 1012 490 TO 493	12 4 12 4
176	418 TO 421 418 TO 421		490 TO 493	12 4
177 178	419 TO 429		491 TO 501	12 4
179	419 JO 429		491 TO 501	12 4
185	420 TO 435		492 TO 507	12 4
181	421 TO 437		493 TO 509	12 4
182	429 TO 443		501 TO 515	12 4
183	435 TO 445		507 TO 517	12 4
**** FOR	473 TO 485			ABOVE ****
*** FOR	477 TO 489			ABOVE ****
**** FOR	481 TO 490			ABOVE ****
**** POR	485 TO 491	. SEE	413 TO 419	ABOVE ****

RELATED TO NOTES TEST LENGTH

PATTERN NOTES

	_	•	•	- 0	KEEKIES		•		. •	, ,	,
***	FOR	489	TO	4924	S	EE	417	TO	420	ABOVE	***
***	FOR	490	TO	493	, SI	EE	418	TO	421	ABOVE	***
* **	FOR	490	TO	493	, S	EE	418	TO	421	ABOVE	****
***	FOR	491	TO	501	, S	EE	419	T O	429	ABOVE	****
* **	FOR	491	TO	501		EE	419	TO	429	ABOVE	***
***	FOR	492	TO	507		EE	420	TO	435	ABOVE	***
***	FOR	493	TO	509		EE	421	TO	437	ABOVE	***
***	FOR	501	TO	515		EE	429	TO	443	ABOVE	***
***	FOR	507	TO	517		EE	435	TO	445	ABOVE	***
***	FOR	529	TO	553		EE	49	TO	73	ABOVE	***
***	FOR	537	TO	561		EE	57	TO	81	ABOVE	***
****	FOR	545	TO	569	=	EE	65	TO	89	ABOVE	****
* ***	FOR	553	TO	577		EE	73	TO	97	ABOVE	****
****	FOR	561	TO	581		EE	81	TO	101	ABOVE	****
***	FOR	569	TO	582		EE	89	TO	102	ABOVE	****
* ***	FOR	577	TO	583		EE	97	TO	103	ABOVE	****
* * * *	FOR	581	TO	584	-	EE	101	TO	104	ABOVE	****
* * * *	FOR	582	TO	585		EE	102	TO	105	ABOVE	****
***	FOR	633	TO	657		EE	185	CT	209	ABOVE	****
****	FOR	633	TO	657		EE	185	TO	209	ABOVE	****
****	FOR	8 2 5	TO	841	.	EE	265	TO	281	ABOVE	****
****	FOR FOR	833	TO	845		E E	121	TO	133	ABOVE	****
****	FOR	837 841	TO	849 (850 (-	EE Ee	125 129	TO TO	137 138	ABOVE	****
* * * *	FOR	845	TO	861		E E	133	TO	149	ABOVE	****
****	FOR	849	TO	862		EE	137	TO	150	ABOVE	****
***	FOR	850	TO	863		EE	138	TO	151	ABOVE	****
****	FOR	861	TO	864		EE	149	TO	152	ABOVE	****
***	FOR	862	TO	865		EE	150	TO	153	ABOVE	****
***		863	TO	869		EE	151	TO	157	ABOVE	****
****	FOR	864	TO	873		EE	152	TO	161	ABOVE	****
****	FOR	865	TO	877		EE	153	TO	165	ABOVE	****
***	FOR	869	TO	881		EE	157			ABOVE	****
***		917		920	•	EE		TO		ABOVE	****
***	FOR	918	TO	921		EE	30	TO		ABOVE	****
****	FOR	933	TO	936		EE	29	TO		ABOVE	
****	FOR	934	TO	937		EE	30	TO	33		****
****	FOR	949	TO	952	, S	EE	29	TO	32	ABOVE	****
****	FOR	950	TO	953	SI	EE	30	TO	33	ABOVE	****
* ***	FOR	965	TO	968	, SI	EE	29	TO	32	ABOVE	****
****	FCR	966	TO	969	, Si	EE	30	TO	33	ABOVE	****
***	FOR	981	TO	984		EE	29	TO	32		****
***	FOR	982	TO	985	, S	EE	30	TO	3 3	ABOVE	****
***	FOR	997	TO	1000		EE	29	TO		ABOVE	****
***	FOR	998	TO	1001		EE	30	TO	33	ABOVE	****
***	FOR	1009	TO	1012		EE	417		420		****
***		1041	TO	1053		EE	1	TO	13	ABOVE	****
* ***		1045	TO	1057	₹'	EE	5	TO	17		****
****	FOR	1049	TO	1058		EE	9	TO		ABOVE	****
****	FUR	1053	TO	1069		EE	13			ABOVE	***
***	FOR	1057	TO	1070	, SI	EE	17	TO	30	ABOVE	****

PATTI	ERN	,	NOTE	ES	RELATED TO	1	NOTES		TES	ST L	ENGTH
****	FOR	1058	TO	1071	SEE	18	то	31	ABOVE	****	
****	FOR	1069	TO	1072	SEE	29	TO	32	ABOVE	****	
****	FOR	1070	TO	1073	SEE	30	TO	33	ABOVE	****	
***	FOR	1071	TO	1077	SEE	31	TO	37	ABOVE	****	
****	FOR	1072	TO	1081	SEE	32	TO	41	ABOVE	****	
****	FOR	1073	TO	1085	SEE	33	TO	45	ABOVE	****	
****	FOR	1105	TO	1129	SEE	49	TO	73	ABOVE	****	
****	FOR	1113	TO	1137	SEE	57	TO	81	ABOVE	****	

*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 449 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED 1	TO NOTES	TEST	LENGTH
184 185 186 187 188 199 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 207 208	1 TO 17 5 TO 18 9 TO 29 13 TO 30 17 TO 31 18 TO 32 29 TO 33 29 TO 38 29 TO 81 49 TO 81 49 TO 81 57 TO 89 57 TO 97 73 TO 101 81 TO 102 89 TO 103	RELATED 1	1041 TO 1057 1045 TO 1058 1049 TO 1069 1053 TO 1070 1057 TO 1071 1058 TO 1072 917 TO 921 933 TO 937 949 TO 953 965 TO 969 981 TO 985 997 TO 1001 1069 TO 1073 1070 TO 1077 1071 TO 1081 1072 TO 1085 529 TO 561 1105 TO 1137 537 TO 569 1113 TO 1145 545 TO 577 1121 TO 1153 553 TO 581 561 TO 582 569 TO 583	12 12 12 12 12 12 12 12 12 12 12 12 12 1	555555555555555555555555555555555555555
209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227	97 TO 104 121 TO 137 121 TO 137 125 TO 138 125 TO 138 129 TO 149 129 TO 149 133 TO 150 137 TO 151 137 TO 151 138 TO 152 138 TO 152 149 TO 153 149 TO 153 150 TO 157 150 TO 157 151 TO 161 151 TO 161		577 TO 584 273 TO 289 833 TO 849 277 TO 290 837 TO 850 281 TO 301 841 TO 861 285 TO 302 845 TO 862 289 TO 303 849 TO 863 290 TO 304 850 TO 864 301 TO 305 861 TO 865 302 TO 309 862 TO 869 303 TO 313 863 TO 873	12 12 12 12 12 12 12 12 12 12 12 12 12 1	55555555555555555555

FATTERN	NOTES	RELATED TO	NOTES	TEST L	ENG TH
228 229 230 231 **** FOR **** FOR	152 TO 165 152 TO 165 153 TO 169 265 TO 285 273 TO 289 277 TO 290		304 T0 317 864 T0 877 865 T0 881 825 T0 845 121 T0 137 125 T0 138	12 12 12 12 12 ABOVE ****	5 5 5 5
**** FOR **** FOR **** FOR **** FOR **** FOR	281 TO 301 285 TO 302 289 TO 303 290 TO 304 301 TO 305 302 TO 309	. SEE . SEE . SEE . SEE . SEE	129 TO 149 133 TO 150 137 TO 151 138 TO 152 149 TO 153 150 TO 157	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	
**** FOR **** FOR 232 233 234 235 236	303 TO 313 304 TO 317 401 TO 417 405 TO 418 409 TO 419 413 TO 420 417 TO 421	, SEE	151 TO 161 152 TO 165 473 TO 489 477 TO 490 481 TO 491 485 TO 492 489 TO 493	ABOVE **** ABOVE **** 12 12 12 12 12 12	5 5 5 5
237 238 239 240 241 242 243	418 TO 429 418 TO 429 419 TO 435 419 TO 435 420 TO 437 421 TO 443 429 TO 445		490 TO 501 490 TO 501 491 TO 507 491 TO 507 492 TO 509 493 TO 515 501 TO 517	12 12 12 12 12 12	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
*** FOR *** FOR *** FOR *** FOR *** FOR	473 TO 489 477 TO 490 481 TO 491 485 TO 492 489 TO 493 490 TO 501	, SEE , SEE , SEE , SEE	401 TO 417 405 TO 418 409 TO 419 413 TO 420 417 TO 421 418 TO 429	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	
**** FOR **** FOR **** FOR **** FOR **** FOR **** FOR	490 TO 501 491 TO 507 491 TO 507 492 TO 509 493 TO 515 501 TO 517 529 TO 561	SEE SEE SEE SEE	418 TO 429 419 TO 435 419 TO 435 420 TO 437 421 TO 443 429 TO 445 49 TO 81	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	
**** FOR **** FOR **** FOR **** FOR **** FOR	537 TO 569 545 TO 577 553 TO 581 561 TO 582 569 TO 583 577 TO 584	, SEE , SEE , SEE , SEE , SEE	57 TO 89 65 TO 97 73 TO 101 81 TO 102 89 TO 103 97 TO 104	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	
*** FOR *** FOR *** FOR *** FOR *** FOR	825 TO 845 833 TO 849 837 TO 850 841 TO 861 845 TO 862 849 TO 863	, SEE , SEE , SEE , SEE	265 TO 285 121 TO 137 125 TO 138 129 TO 149 133 TO 150 137 TO 151	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	

PATTE	ERN	ľ	NOTE	S	RELATED TO	٨	IOTE	S	TES	ST (ENGTH
* ***	_	850	TO	864,	SEE	138	TO	152		***	•
****	FOR	861	TO	865,	SEE	149	TO	153	ABOVE	***	
	FOR	862	TO	869,	SEE	150	TO	157	ABOVE	***	
***	FOR	863	TO	873,	SEE	151	TO	161	ABOVE		
****	FOR	864	TO	877,	SEE	152	TO	165	ABOVE	***	•
***	FOR	865	TO	881,	SEE	153	TO	169	ABOVE	***	-
****	FOR	917	TO	921,	SEE	29	TO	33	ABOVE	***	
****	FOR	933	TO	937,	SEE	29	CT	33	ABOVE	***	*
***	FOR	949	TO	953,	SEE	29	TO	33	ABOVE	***	k
***	FOR	965	TO	969,	SEE	29	TO	33	ABOVE	***	k
***	FOR	981	TO	985	SEE	29	TO	33	ABOVE	***	k
* ***	FOR	997	TO	1001,	SEE	29	TO	33	ABOVE	***	k
* ***	FOR	1041	TO	1057,	SEE	1	TO	17	ABOVE	***	k
****	FOR	1045	TO	1058,	SEE	5	TO	18	ABOVE	***	k
****	FOR	1049	TO	1069,	SEE	9	TO	29	ABOVE	***	k
****	FOR	1053	TO	1070,	SEE	13	TO	30	ABOVE	***	k
****	FOR	1057	TO	1071.	SEE	17	TO	31	ABOVE	***	k
****	FOR	1058	TO	1072,	SEE	18	TO	32	ABOVE	****	k
****	FOR	1069	TO	1073	SEE	29	TO	33	ABOVE	***	k
****	FOR	1070	TO	1077,	SEE	30	TO	37	ABOVE	***	
****	FOR	1071	TO	1081.		31	TO	41		***	
				•	SEE				ABOVE		
* ***	FOR	1072	TO	1085,	SEE	32	TO	45	ABOVE	***	F

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL)
WAS BEGUN AT 569 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENG TH
244	1 TO 18	1041		12	6
245 246	5 TO 29 9 TO 30	1045 1049	TO 1069 TO 1070	12 12	6
246		1049		12	6
248	13 TO 31 17 TO 32	1053	TO 1071 TO 1072	12	6
249	18 TO 33	1057	TO 1073	12	
250	29 TO 37	1056		12	6
251	30 TO 41	1070	TO 1081	12	6
252	31 TO 45	1070	TO 1085	12	
252	49 TO 89	529		12	6
254	49 TO 89	1105	TO 1145	12	6
255	57 TO 97	537	TO 577	12	6
256	57 TO 97	1113		12	6
257	65 TO 101	545	TO 581	12	6
258	73 TO 102	553	TO 582	12	6
259	81 TO 103	561	TO 583	12	6
260	89 TO 104	569		12	6
261	97 TO 105	577		12	6
262	121 TO 138	273	TO 290	12	6
263	121 TO 138	833	TO 850	12	6
264	125 TO 149	277	TO 301	12	6
265	125 TO 149	837		12	6
266	129 TO 150	281	TO 302	12	6
267	129 TO 150	841	TO 862	12	6
268	133 TO 151	285	TO 303	12	6
269	133 TO 151	845	TO 863	12	6
270	137 TO 152	289		12	6
271	137 TO 152	849		12	6
272	138 TO 153	290		12	6
273	138 TO 153	850		12	. 6
274	149 TO 157	301	TO 309	12	6
275	149 TO 157	861	TO 869	12	6
276	150 TO 161	302	TO 313	12	6
277	150 TO 161	862	TO 873	12	6
278	151 TO 165	303	TO 317	12	6
279	151 TO 165	863	TO 877	12	6
280	152 TO 169	864	TO 881	12	6
281	265 TO 289	825	TO 849	12	6
**** FOR	273 TO 290			ABOVE ****	
**** FOR	277 TO 301		TO 149	ABOVE ****	
**** FOR	281 TO 302			ABOVE ****	
**** FOR	285 TO 303		TO 151	ABOVE ****	
**** FOR	289 TO 304		TO 152	ABOVE ****	
**** FOR	290 TO 305	• SEE 138	TO 153	ABOVE ****	

PATTERN	NCTES	RELATED TO	NOTES	TEST L	ENGTH
**** FOR		09. SEE	149 TO 157	ABOVE ****	
**** FOR **** FOR		13, SEE 17, SEE	150 TO 161 151 TO 165	ABOVE ****	
282		17, SEE 18	473 TO 490	12	6
283		19	477 TO 491	12	6
284		20	481 TO 492	12	6
285		21	485 TO 493	12	6
286	417 TO 4	29	489 TO 501	12	6
287		35	490 TO 507	12	6
288	418 TO 4	35	490 TO 507	12	6
289	419 TO 4	37	491 TO 509	12	6
290		37	491 TO 509	12	6
291		43	492 TO 515	12	6
292		45	493 TO 517	12	6
**** FOR		90, SEE	401 TO 418	ABOVE ****	
**** FOR		91. SEE	405 TJ 419	ABOVE ****	
**** FOR		92. SEE	409 TO 420	ABOVE ****	
**** FOR		93, SEE	413 TO 421	ABOVE ****	
**** FOR		Ol, SEE	417 TO 429 418 TO 435		
**** FOR **** FOR		07, SEE 07, SEE	418 TO 435 418 TO 435	ABOVE ****	
**** FOR		07, SEE 09, SEE	418 TO 435	ABOVE ****	
**** FOR		09. SEE	419 TO 437	ABOVE ****	
**** FOR		15. SEE	420 TO 443	ABOVE ****	
**** FOR		17. SEE	421 TO 445	ABOVE ***	
**** FOR		69. SEE	49 TO 89	ABOVE ****	
**** FOR		77. SEE	57 TO 97	ABOVE ****	t
**** FOR		81, SEE	65 TO 101	ABOVE ****	t
**** FOR		82, SEE	73 TO 102	ABOVE ****	
**** FOR	561 TO 5	83, SEE	81 TO 103	ABOVE ****	
**** FOR		84, SEE	89 TO 104	ABOVE ****	t
**** FOR		85, SEE	97 TO 105	ABOVE ****	
**** FOR		49, SEE	265 TO 289	4*** 3VC8A	
**** FOR		50, SEE	121 TO 138	ABOVE ***	•
**** FOR		61, SEE	125 TO 149		•
**** FOR		62. SEE	129 TO 150	ABOVE ****	
**** FOR **** FOR		63, SEE	133 TO 151	ABOVE ****	
**** FOR **** FOR		64, SEE 65, SEE	137 TO 152 138 TO 153	ABOVE ****	
**** FOR		69. SEE	149 TO 157	ABOVE ****	
**** FOR		73, SEE	150 TO 161	ABOVE ****	
**** FOR		77. SEE	151 TO 165	ABOVE ****	
**** FOR		81. SEE	152 TO 169	ABOVE ****	
		58, SEE	1 TO 18	ABOVE ****	t
**** FOR		69, SEE	5 TO 29	ABOVE ****	
**** FOR		70, SEE	9 TO 30	ABOVE ****	
**** FOR		71, SEE	13 TO 31	ABOVE ****	k .
**** FOR		72, SEE	17 TO 32	ABOVE ****	
**** FOR		73, SEE	18 TO 33	ABOVE ****	
**** FOR		77, SEE	29 TO 37	ABOVE ****	
**** FOR	1070 TO 10	81, SEE	30 TO 41	4 BOVE ****	•

PATTERN NOTES RELATED TO NOTES TEST LENGTH

**** FOR 1071 TO 1085, SEE 31 TO 45 ABOVE ****

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 690 SECONDS INTO EXECUTION.

293	PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
294 5 TO 30 1045 TO 1070 12 7 295 9 TO 31 1049 TO 1072 12 7 296 13 TO 32 1053 TO 1072 12 7 297 17 TO 33 1057 TO 1073 12 7 298 18 TO 37 1058 TO 1077 12 7 299 29 TO 41 1069 TO 1081 12 7 300 30 TO 45 1070 TO 1085 12 7 300 30 TO 45 1070 TO 1085 12 7 300 30 TO 45 1070 TO 1085 12 7 300 30 TO 101 53 55 TO 582 12 7 <td>293</td> <td>1 TO 29</td> <td>1041 TO 1069</td> <td>12</td> <td>7</td>	293	1 TO 29	1041 TO 1069	12	7
295 9 TO 31 1049 TO 1071 12 7 296 13 TO 32 1057 TO 1073 12 7 298 18 TO 37 1058 TO 1077 12 7 299 29 TO 41 1069 TO 1085 12 7 300 30 TO 45 1070 TO 1085 12 7 301 49 TO 97 1105 TO 1153 12 7 301 49 TO 97 1105 TO 1153 12 7 302 49 TO 97 1105 TO 1153 12 7 304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 584 12 7					
296 13 TO 32 1053 TO 1072 12 7 257 17 TO 33 1057 TO 1073 12 7 298 18 TO 37 1058 TO 1077 12 7 299 29 TO 41 1069 TO 1081 12 7 300 30 TO 45 1070 TO 1085 12 7 301 49 TO 97 1105 TO 1153 12 7 302 49 TO 97 1105 TO 1153 12 7 304 65 TO 102 545 TO 582 12 7 304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 583 12 7					
257 17 TO 33 1057 TO 1073 12 7 298 18 TO 37 1058 TO 1077 12 7 299 29 TO 41 1069 TO 1081 12 7 300 30 TO 45 1070 TO 1085 12 7 301 49 TO 97 529 TO 577 12 7 302 49 TO 97 1105 TO 1153 12 7 303 57 TO 101 537 TO 581 12 7 304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 583 12 7 306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 285 TO 304 12 7 316 137 TO 153 849 TO 865 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 319 138 TO 157 850 TO 869 12 7 321 149 TO 161 301 TO 313 12 7 322 150 TO 165 302 TO 317 12 7 324 151 TO 169 863 TO 869 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 333 419 TO 443 491 TO 515 12 7 3334 419 TO 443 491 TO 515 12 7 334 419 TO 4443 491 TO 515 12 7 334 419 TO 4443 491 TO 515 12 7					
298 18 TO 37 1058 TO 1077 12 7 299 29 TO 41 1069 TO 1081 12 7 300 30 TO 45 1070 TO 1085 12 7 301 49 TO 97 1105 TO 1577 12 7 302 49 TO 97 1105 TO 1577 12 7 303 57 TO 101 537 TO 581 12 7 304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 583 12 7 306 81 TO 104 561 TO 584 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 311 125 TO 150 837 TO 862 12 7 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
299 29 TO 41 1069 TO 1081 12 7 300 30 TO 45 1070 TO 1085 12 7 301 49 TO 97 1105 577 12 7 302 49 TO 97 1105 TO 1153 12 7 303 57 TO 101 537 TO 581 12 7 304 65 TO 102 545 TO 582 12 7 306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 310 125 TO 150 277 TO 302 12 7 311 <					
301					
301	300	30 TO 45	1070 TO 1085	12	7
303 57 TO 101 537 TO 581 12 7 304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 583 12 7 306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 285 TO 304 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 289 TO 305 12 7 318 138 TO 157 290 TO 309 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 301 TO 313 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 302 TO 317 12 7 324 151 TO 169 863 TO 877 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 329 413 TO 429 485 TO 501 12 7 330 417 TO 435 489 TO 509 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7	301	49 TO 97			7
304 65 TO 102 545 TO 582 12 7 305 73 TO 103 553 TO 583 12 7 306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 849 TO 865 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 301 TO 313 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 330 417 TO 435 489 TO 509 12 7 331 418 TO 429 485 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 418 TO 437 490 TO 509 12 7 333 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7	302	49 TO 97	1105 TO 1153	12	
305 73 TO 103 553 TO 583 12 7 306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 312 129 TO 151 841 TO 863 12 7 312 129 TO 151 841 TO 863 12 7 314 133 TO 152 845 TO 864 12 7	303	57 TO 101	537 TO 581	12	
306 81 TO 104 561 TO 584 12 7 307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 290 TO 309 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 862 TO 877 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 329 413 TO 429 485 TO 507 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7	304			12	
307 89 TO 105 569 TO 585 12 7 308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 3					
308 121 TO 149 273 TO 301 12 7 309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7					
309 121 TO 149 833 TO 861 12 7 310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7					
310 125 TO 150 277 TO 302 12 7 311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7		- · ·			
311 125 TO 150 837 TO 862 12 7 312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7					
312 129 TO 151 281 TO 303 12 7 313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7					
313 129 TO 151 841 TO 863 12 7 314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TQ 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7					7
314 133 TO 152 285 TO 304 12 7 315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 302 TO 317 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7					
315 133 TO 152 845 TO 864 12 7 316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7					
316 137 TO 153 289 TO 305 12 7 317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 302 TO 317 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 492 12 7					7
317 137 TO 153 849 TO 865 12 7 318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 330 417 TO 435 489 TO 507 12 7					
318 138 TO 157 290 TO 309 12 7 319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 5C1 12 7 331 418 TO 437 490 TO 509 12 7					
319 138 TO 157 850 TO 869 12 7 320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 5C1 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7					
320 149 TO 161 301 TO 313 12 7 321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 5C1 12 7 330 417 TO 435 489 TO 5O7 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7					
321 149 TO 161 861 TO 873 12 7 322 150 TO 165 302 TO 317 12 7 323 150 TO 165 862 TO 877 12 7 324 151 TO 169 863 TO 881 12 7 325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 5C1 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
322 150 T0 165 302 T0 317 12 7 323 150 T0 165 862 T0 877 12 7 324 151 T0 169 863 T0 881 12 7 325 265 T0 290 825 T0 850 12 7 326 401 T0 419 473 T0 491 12 7 327 405 T0 420 477 T0 492 12 7 328 409 T0 421 481 T0 493 12 7 329 413 T0 429 485 T0 5C1 12 7 330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7 334 419 T0 443 491 T0 515 12 7					
323 150 T0 165 862 T0 877 12 7 324 151 T0 169 863 T0 881 12 7 325 265 T0 290 825 T0 850 12 7 326 401 T0 419 473 T0 491 12 7 327 405 T0 420 477 T0 492 12 7 328 409 T0 421 481 T0 493 12 7 329 413 T0 429 485 T0 5C1 12 7 330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7					
324 151 T0 169 863 T0 881 12 7 325 265 T0 290 825 T0 850 12 7 326 401 T0 419 473 T0 491 12 7 327 405 T0 420 477 T0 492 12 7 328 409 T0 421 481 T0 493 12 7 329 413 T0 429 485 T0 501 12 7 330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7 334 419 T0 443 491 T0 515 12 7					
325 265 TO 290 825 TO 850 12 7 326 401 TO 419 473 TO 491 12 7 327 405 TO 420 477 TO 492 12 7 328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 501 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					_
326 401 T0 419 473 T0 491 12 7 327 405 T0 420 477 T0 492 12 7 328 409 T0 421 481 T0 493 12 7 329 413 T0 429 485 T0 5C1 12 7 330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7 334 419 T0 443 491 T0 515 12 7					
327 405 T0 420 477 T0 492 12 7 328 409 T0 421 481 T0 493 12 7 329 413 T0 429 485 T0 501 12 7 330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7 334 419 T0 443 491 T0 515 12 7					
328 409 TO 421 481 TO 493 12 7 329 413 TO 429 485 TO 5C1 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
329 413 TO 429 485 TO 5C1 12 7 330 417 TO 435 489 TO 507 12 7 331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
330 417 T0 435 489 T0 507 12 7 331 418 T0 437 490 T0 509 12 7 332 418 T0 437 490 T0 509 12 7 333 419 T0 443 491 T0 515 12 7 334 419 T0 443 491 T0 515 12 7					
331 418 TO 437 490 TO 509 12 7 332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
332 418 TO 437 490 TO 509 12 7 333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
333 419 TO 443 491 TO 515 12 7 334 419 TO 443 491 TO 515 12 7					
334 419 TO 443 491 TO 515 12 7					
	335		-		

PA

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL)
WAS BEGUN AT 710 SECONDS INTO EXECUTION.

PATTERN	NOTES	5	RELATED	TO N	OTI	ES	TEST	LENGTH
336	1 TO	30		1041		1070	12	8
337	5 TO	31		1045	TO	1071	12	8
338	9 TO	32		1049	TO	1072	12	8
339	13 TO	33		1053	TO	1073	12	8
340	17 TO	37		1057	ΤO	1077	12	8
341	18 TO	41		1058	TO	1381	12	8
342	29 TO	45		1069	TO	1085	12	8
343	49 TO	101		529	TO	581	12	8
344	57 TO	102		537	TO	582	12	8
345	65 TO	103		545	TO	583	12	8
346	73 TO	104		553	TO	584	12	8
347	81 TO	105		561	TO	585	12	8
348	121 TO	150		273	TO	302	12	8
349	121 TO	150		833	ΤO	862	12	8
350	125 TO	151		277	TO	303	12	8
351	125 TO	151		837	TO	863	12	8
352	129 TO	152		281	TO	304	12	8
353	129 TO	152		841	TO	864	12	8
354	133 TO	153		285	TO	305	12	8
355	133 TO	153			TO	865	12	8
356	137 TO	157		289	TO	309	12	8
357	137 TO	157		849	TO	869	12	8
358	138 TO	161		290	TO	313	12	8
359	138 TO	161		850	TO	873	12	8
360	149 TO	165		301	TO	317	12	8
361	149 TO	165		861	TO	877	12	8
362	150 TO	169		862	TO	881	12	8
363	265 TO	301		825	TO	861	12	8
364	401 TO	420		473	TO	492	12	8
365	405 TO	421		477	TO	493	12	8
366	409 TO	429		481	TO	501	12	8
367	413 TO	435		485	TO	507	12	8
368	417 TO	437		489		509	12	8
369	418 TO	443		490	TO	515	12	8
370	418 TO	443		490	TO	515	12	8
371	419 TO	445		491	TO	517	12	8
372	419 TO	445		491	TO	517	12	8

P A

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH --EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 729 SECONDS INTO EXECUTION.

PATTERN	•	NCTE	S	RELATED	T 0	NOT	ES	TEST	LENGTH
373	1	то	31		1041	то	1071	12	9
374	5	TO	32		1045	ŦO	1372	12	9
375	9	TO	33		1049	TO	1073	1-2	9
376	13	TO	37		1053	TO	1077	12	9
377	17	TO	41		1057	TO	1081	12	9
378	18	TO	45		1058	TO	1085	12	9
379	49	TO	102		529	TO	582	12	9
380	57	TO	103		537	TO	583	12	9
381	65	TO	104		545	TO	584	12	9
382	73	TO	105		553	TO	585	12	9
383	121	TO	151		273	TO	303	12	9
384	121	TO	151		833	TO	863	12	9
385	125	TO	152		277	TO	304	12	9
386	125	TO	152		837	TO	864	12	9
387	129	TO	153		281	TO	305	12	9
388	129	TO	153		841	TO	865	12	9
389	133	TO	157		285	TO	309	12	9
390	133	TO	157		845	TO	869	12	9
391	137	TO	161		289	TO	313	12	9
392	137	TO	161		849	to	873	12	9
393	138	TO	165		290	TO	317	12	9
394	138	TO	165		850	TO	877	12	9
395	149	TO	169		861	TO	881	12	9
396	265	TO	302		825	ŤΟ	862	12	9
397	401	TO	421		473	TO	493	12	9
398	405	TO	429		477	τo	501	12	9
399	409	TO	435		481	ΤO	507	12	9
400	413	TO	437		485	TO	509	12	9
401	417	TO	443		489	TO	515	12	9
402	418	TO	445		490	TO	517	12	9
403	418	TO	445		490	TO	517	12	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH --EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 748 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTE	S -	TEST	LENGTH
404	1 TO 32		1041 TO	1072	12	10
405	5 TO 33		1045 TO	1073	12	10
406	9 TO 37		1049 TO	1077	12	10
407	13 TO 41		1053 TO	1081	12	10
408	17 TO 45	i	1057 TO	1085	12	10
409	49 TO 103	1	529 TO	583	12	10
410	57 TO 104		537 TO	584	12	10
411	65 TO 105	i	545 TO	585	12	10
412	121 TO 152		273 TD	304	12	10
413	121 TO 152	!	833 TO	864	12	10
414	125 TO 153	3	277 TO	305	12	10
415	125 TO 153	1	837 TO	865	12	10
416	129 TO 157		281 TO	309	12	10
417	129 TO 157	•	841 TO	869	12	10
418	133 TO 161		285 TO	313	12	10
419	133 TO 161		845 TO	873	12	10
420	137 TO 165	5	289 TO	317	12	10
421	137 TO 165	5	849 TO	877	12	10
422	138 TO 169)	850 TO	881	12	10
423	265 TO 303	1	825 TO	863	12	10
424	401 TO 429		473 TO	501	12	10
425	405 TO 435	i	477 TO	507	12	10
426	409 TO 437		481 TO	509	12	10
427	413 TO 443	1	485 TO	515	12	10
428	417 TO 445	•	489 TO	517	12	10

PATTERN NOTES RELATED TO NOTES TEST LENGTH

#*** FOR 1071 TO 1085, SEE 31 TO 45 ABOVE ****

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 690 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED	TO NOTES	TEST	LENGTH
293	1 TO 2	•	1041 TO 1069	12	7
294	5 TO 30)	1045 TO 1070	12	7
295	9 TO 3		1049 TO 1071	12	7
296	13 TO 33		1053 TO 1072	12	7
297	17 TO 33	}	1057 TO 1073	12	7
298	18 TO 3	7	1058 TO 1077	12	7
29 9	29 TO 4		1069 TO 1081	12	7
300	30 TO 45	5	1070 TO 1085	12	7
301	49 TO 9°		529 TO 577	12	7
302	49 TO 9	7	1105 TO 1153	12	7
303	57 TO 10:	•	537 TO 581	12	7
304	65 TO 10	<u>.</u>	545 TO 582	12	7
305	73 TO 10:	}	553 TO 583	12	7
306	81 TO 104	•	561 TO 584	12	7
307	89 TO 10	5	569 TO 585	12	7
308	121 TO 149)	273 TO 301	12	7
309	121 TO 149)	833 TO 861	12	7
310	125 TO 15)	277 TO 302	12	7
311	125 TO 15)	837 TO 862	12	7
312	129 TO 15	•	281 TO 303	12	7
313	129 TO 15		841 TO 863	12	7
314	133 TO 15		285 TO 304	12	7
315	133 TO 15		845 TO 864	12	7
316	137 TO 15:		289 TO 305	12	7
317	137 TO 15:		849 TO 865	12	7
318	138 TO 15		290 TD 309	12	7
319	138 TO 15		850 TO 869	12	7
320	149 TO 16		301 TD 313	12	7
321	149 TO 16		861 TD 873	12	7
322	150 TO 16		302 TO 317	12	7
323	150 TO 16		862 TO 877	12	7
324	151 TO 16		863 TO 881	12	7
325	265 TO 29		825 TO 850	12	7
326	401 TO 419		473 TO 491	12	7
327	405 TO 420		477 TO 492	12	7
328	409 TO 42		481 TO 493	12	7
329	413 TO 429		485 TO 5C1	12	7
330	417 TO 43		489 TO 507	12	7
331	418 TO 43		490 TO 509	12	7
332	418 TO 43		490 TO 509	12	7
333	419 TO 441		491 TO 515	12	7
334	419 TO 441		491 TO 515	12	7
335	420 TO 449		492 TD 517	12	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 710 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST LENGTH
		10/1 70 107	
336	1 TO 30	1041 TO 107	
33 7	5 TO 31	1045 TO 107	
338	9 TO 32 13 TO 33	1049 TO 107 1053 TO 107	
339	17 TO 37	1053 TO 107 1057 TO 107	
340 341	18 TO 41	1057 TO 107 1058 TO 138	
342	29 TO 45	1069 TO 108	
343	49 TO 101	529 TO 58	
344	57 TO 102	537 TO 58	
345	65 TO 103	545 TO 58	
346	73 TO 104	553 TO 58	
347	81 TO 105	561 TO 58	
348	121 TO 150	273 TO 30	
349	121 TO 150	833 TO 86	
350	125 TO 151	277 TO 30	
351	125 TO 151	837 TO 86	3 12 8
352	129 TO 152	281 TO 30	
353	129 TO 152	841 TO 86	
354	133 TO 153	285 T O 30	
355	133 TO 153	845 TO 86	
356	137 TO 157	289 TO 30	
35 7	137 TO 157	849 TO 86	
358	138 TO 161	290 TO 31	
359	138 TO 161	850 TO 87	
360	149 TO 165	301 TO 31	
361	149 TO 165	861 TO 87	
362	150 TO 169	862 TO 88	
363	265 TO 301	825 TO 86	
364	401 TO 420	473 TO 49	
365 344	405 TO 421	477 TO 49 481 TO 50	
366	409 TO 429		
367 369	413 TO 435 417 TO 437	485 TJ 50 489 TO 50	
368 369	417 TO 437 418 TO 443	489 TO 50	
370	418 TO 443	490 TO 51	
371	419 TO 445	491 TO 51	
372	419 TO 445	491 TO 51	
J. E	.27 .0 177	772 10 71	

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 729 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOTES	TEST	LENGTH
373	1 TO 31	1041 TD 1071	12	9
374	5 TO 32	1045 10 1372	12	ģ
375	9 TO 33	1049 TO 1073	12	ý
376	13 TO 37	1053 TO 1077	12	9
377	17 TO 41	1057 TO 1081	12	ý
378	18 TO 45	1058 TO 1085	12	9
379	49 TO 102	529 TO 582	12	ģ
380	57 TO 103	537 TO 583	12	9
381	65 TO 104	545 TO 584	12	9
382	73 TO 105	553 TO 585	12	9
383	121 TO 151	273 TO 303	12	9
384	121 TO 151	833 TO 863	12	9
385	125 TO 152	277 TO 304	12	9
386	125 TO 152	837 TO 864	12	9
387	129 TO 153	281 TO 305	12	9
388	129 TO 153	841 TO 865	12	9
389	133 TO 157	285 TO 309	12	9
390	133 TO 157	845 TD 869	12	9
391	137 TO 161	289 TO 313	12	9
392	137 TO 161	849 TO 873	12	9
393	138 TO 165	290 TO 317	12	9
394	138 TO 165	8 50 T 0 877	12	9
395	149 TO 169	861 TO 881	12	9
396	265 TO 302	825 TO 862	12	9
397	401 TO 421	473 TO 493	12	9
398	405 TO 429	477 TO 501	12	9
399	409 TO 435	481 TO 507	12	9
400	413 TO 437	485 TO 509	12	9
401	417 TO 443	489 TO 515	12	9
402	418 TO 445	490 TO 517	12	9
403	418 TO 445	490 TO 517	12	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 748 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOTES	TEST	LENGTH
404	1 TO 32	1041 TO 1072	12	10
405	5 TO 33	1045 TO 1073	12	10
406	9 TO 37	1049 TO 1073	12	10
407	13 TO 41	1053 TO 1081	12	10
408	17 TO 45	1057 TO 1085	12	10
409	49 TO 103	529 TO 583	12	10
410	57 TO 104	537 TO 584	12	10
411	65 TO 105	545 TO 585	12	10
412	121 TO 152	273 TD 304	12	10
413	121 TO 152	833 TD 864	12	10
414	125 TO 153	277 TO 305	12	10
415	125 TO 153	837 TO 865	12	10
416	129 TO 157	281 TO 309	12	10
417	129 TO 157	841 TO 869	12	10
418	133 TO 161	285 TO 313	12	10
419	133 TO 161	845 TO 873	12	10
420	137 TO 165	289 TO 317	12	10
421	137 TO 165	849 TO 877	12	10
422	138 TO 169	850 TO 881	12	10
423	265 TO 303	825 TO 863	12	10
424	401 TO 429	473 TO 501	12	10
425	405 TO 435	477 TO 507	12	10
426	409 TO 437	481 TO 509	12	10
427	413 TO 443	485 TO 515	12	10
428	417 TO 445	489 TD 517	12	10

SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 766 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELAT	TED TO	NOTES	TEST	LENGTH
429	1 TO	33	10	41 TO 1 07 3	12	11
430	5 TO	37	10	45 TO 1077	12	11
431	9 TO	41	10	49 TO 1081	12	11
432	13 TO	45	10	53 TO 1085	12	11
433	49 TO	104	5	29 TO 584	12	11
434	57 TO	105	5:	37 TO 585	12	11
435	121 TO	153	2	73 TO 305	12	11
436	121 TO	153	8:	33 TO 865	12	11
437	125 TO	157	2	77 TO 309	12	11
438	125 TO	157	8:	37 TO 869	12	11.
439	129 TO	161	2	81 TO 313	12	11
440	129 TO	161	8	41 TO 873	12	11
441	133 TO	165	2	95 TO 317	12	11
442	133 TO	165	8	45 TO 877	12	11
443	137 TO	169	84	49 TD 881	12	11
444	265 TO	304	8:	25 TO 864	12	11
445	401 TO	435	4	73 TO 507	12	11
446	405 TO	437	4	77 TO 509	12	11
447	409 TO	443	4	81 TO 515	12	11
448	413 TO	445	4	85 TO 517	12	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (DRIGINAL) WAS BEGUN AT 784 SECONDS INTO EXECUTION.

PATTERN	NGTE	S	RELATED	TO	NOTE	S	TEST	LENGTH
449	1 TO	37		1041	. TO	1077	12	12
450	5 TO	41		1045		1381	12	12
451	9 TO	45		1049	TO	1385	12	12
452	49 TO	105		529	TO	585	12	12
453	121 TO	157		273	TO	309	12	12
454	121 TO	157		833	TO	869	12	12
455	125 TO	161		277	7 TO	313	12	12
456	125 TO	161		837	T 0	873	12	12
457	129 TO	165		281	. TO	317	12	12
458	129 TO	165		841	. TO	877	12	12
459	133 TO	169		845	TO	881	12	12
460	265 TO	305		825	TO	865	12	12
461	401 TO	437		473	S TO	509	12	12
462	405 TO	443		477	TO	515	12	12
463	409 TO	445		481	, TO	517	12	12

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH FEXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 801 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NOT	ES TEST	LENGTH
464	1 TO 41	1041 TO	1081 12	13
465	5 TO 45	1045 TO	1085 12	13
466	121 TO 161	273 TO	313 12	- 13
467	121 TO 161	833 TO	873 12	13
468	125 TO 165	277 TO	317 12	13
469	125 TO 165	83 7 TO	877 12	13
470	129 TO 169	841 TO	881 12	13
471	265 TO 309	825 TO	869 12	13
472	401 TO 443	473 TO	515 12	13
473	405 TO 445	477 TO	517 12	13

SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 818 SECONDS INTO EXECUTION.

PATTERN NOTES		TES RELATED TO NOTES		TEST	LENGTH		
474	1 TO 45		1041 TO 1	085 12	14		
475	121 TO 165		273 TO	317 12	14		
476	121 TO 165		833 TD	877 12	14		
477	125 TO 169		837 TO	881 12	14		
478	265 TO 313		825 TO	873 12	14		
479	401 TO 445		473 TO	517 12	14		

SEARCH FOR PATTERNS OF 15 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 835 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED T	O NOTES	TEST	LENGTH		
480	121 TO 16	-	833 TO 881	12	15		
481	265 TO 31		825 TO 877	12	15		

SEARCH FOR PATTERNS OF 16 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL) WAS BEGUN AT 851 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 481 PATTERNS LOCATED.

*** TYPE II LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE EXACT RHYTHM WITH EXACT CONTOUR (ORIGINAL)

		NUMBER OF OCCURRENCES	LENGTH OF Pattern			
265 TO	317	2	15			
121 TO	169	2	15			
161 TO	169 152	4	3 3			
	OCCURRE 265 TO	.61 TO 169	OCCURRENCE OCCURRENCES 265 TO 317 2 121 TO 169 2 161 TO 169 4			

**** TEST 12 COMPLETED AT 979 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS ********

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

TEST REQUESTED 14 UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES	36	THR (OUGH O	38	16 0	-1	c	38	0	0	0	43	0	-1	0
NOTES	17 43 33					0	3	0	o	0	э	36	38	41	38
NOTES	33 36 (0	Э	31	3	0	Э	29	0	0	0
NOTES	49 28 (0	0	30	э	0	Э	-1	0	0	0
NOTES	65 33 (0	0	31	Э	0	c	-1	0	0	0
NOTES	81 30 (0	0	29	0	0	Э	-1	0	0	0
NOTES	97 28 0	THR (UGH 0	1 52	12 51	52	51	52	J	2	2	52	0	ა	0
NOTES	113 49 0					0	Э	49)	0	o	47	0	-1	0
NOTES	129 47 (-1	0	42	52	0	3	0	0	0	0
NOTES		THR (44	47	49	3	0	0	53	o	o	3
NOTES	161 54 (0	2	5 7	Э	3	2	-1	0	0	၁
NOTES	177 45 (0	0	43	0	0	3	c	0	0	0
NOTES	193 41 (0	o	40	0	0	0	0	0	0	G

NOTES	209 38	THR C 0	CUGH 0	-1	24	0	0	Э	2	51	0	51	С	-1	0
NOTES	225 0	THR 0 52	OUGH O	52	40	-1	0	0	0	49	Э	49	o	-1	9
NOTES			CUGH 0				0	0	0	52	0	52	၁	0	0
NOTES	25 7 53						၁	41	o	0	0	0	0	0	0
NOTES	273 40					-1	3	38	0	0	Э	33	Q	-1	0
NOTES	289 33 43	THR 3 0	аисн 0	0	0	0	0	0	o	0)	40	38	35	38
NOTES	305 40					0	Э	45	o	0	3	47	0	0	o
NOTES	321 49					3 7	39	41	0	0	0	42	0	0	0
NOTES	337 43					0	0	41	o	0	Э	0	0	0	0
NOTES	353 3 9					0	o	38	၁	0	0	0	0	0	0
NOTES	369 37)	36)	0	0	0	2	0	0
NOTES	385 35					0	0	33	o	0	0	0	0	0	Э
NOTES	401 35					0	ວ	38	9	0	c	42	0	0	0
NOTES	417 44 4					0	0	0	0	0	c	49	0	-1	0
NOTES			OUGH O			0	Э	-1	0	44	c	42	0	0	0
NOTES	449					0	၁	44)	0)	o	0	0	0
NOTES	465 39					0	၁	28	0	0	0	30	0	0	J
NOTES	481 31					0	0	37	40	37	35	32	၁	0	3

NOTES	497 0 0			512 2 0	-1	0	0	0	42	0	37	0	0	0
NOTES	513 -1 0				0	3	-1	0	33	0	38	0	0	0
VOTES	529 31 (0	o	33	Э	0	0	-1	0	0	0
NOTES,	545 36 0	THRO	UGH O -	560 1 0	0)	34	၁	0)	-1	0	0	Э
NOTES	561 33 0				0	3	32	0	0	o	-1	0	0	0
NOTES	577 31 (55	54	55	0	0)	50	0	52	0
NOTES	593 47 0	THRO	CUGH O -	608 ·1 0	0	ĵ	54	0	0	o	52	0	0	0
NOTES	609 51 (0	0	45	42	45	47	50	0	0	0
NOTES				640 0 0	-1)	38	0	0)	0	0	0	0
NOTES	641 36 0	THR(UGH 0	6 56 0 0	0	σ	35	o	9	3	၁	0	0	0
NOTES	657 33 0				0	3	0	0	0	o	43	0	0	0
NOTES					0	0	40	0	0	3	0	0	0	o
NOTES		THRO	UGH	704										
VOTES		THRO	UGH	720				-				0	-	
NOTES		THRO	UGH	736							0		0	
IOTES		THR	CUGH	752						_			0	
NOTES	753	THRO	UGH	768	-	_		_	_				0	
NOTES	769 48 38	THRO	OUGH	784			0						0	

NOTES	78 5	CUGH 0	800 C 0	0	3	41	Э	43	c	46	0	43	Э
NOTES			816 0 0		0	37	0	0	3	0	o	0	0
NOTES			832 0 0		0	34	9	0	၁	0	0	0	0
NOTES			848 31 0)	31	0	0	Э	26	0	-1	0
NOTES			864 0 0		3	0	0	0)	33	31	28	31
NOTES			880 3 7 0		٥	38	0	0	Э	40	0	0	0
NOTES			8 96 53 5 5		58	60	0	56	o	54	0	49	0
HOTES			912 39 0		၁	-1	0	0	Э	0	0	0	0
NOTES			928 24 26		26	24	0	0	3	-1	0	0	2
NOTES			944 49 51		51	49	0	0	၁	-1	٥	0	o
NOTES			960 2 3 25		25	23	0	o	o	-1	0	0	0
NCTES			976 30 32		32	30	0	0	2	-1	0	0	0
AOTES			992 45 47		47	45	o	0	Э	-1	0	υ	၁
NOTES			1008 22 24		24	22	0	0	0	-1	0	0	0
NOTES			1024 41 0		0	-1	o	0	0	36	o	37	ა
NOTES			1043 0 0		o	43	0	0	3	0	0	-1	0
.votes			1056 38 0		o	38	0	0	2	43	ŋ	-1	0
NOTES			1072 0 0		0	3	0	0)	36	38	41	38

NOTES	1C73 THROUGH 1088 36 C O O 32 O	0	0 31	0	c) 29	0	0	9
NOTES	1C89 THROUGH 1104 27 0 0 0 0 0	0	0 25	0	0	o c	0	0	c
NOTES	1105 THROUGH 1120 24 C O O -1 O	0	0 26	o	0	0 -1	c	0	Э
NOTES	1121 THROUGH 1136 29 0 0 0 -1 0	0	0 27	0	0	0 -1	0	0	0
NOTES	1137 THROUGH 1152 26 0 0 0 -1 0	0	0 25	0	0	0 -1	0	0	0
NOTES	1153 THROUGH 1168 24 0 0 0 -1 0	0	0 0	0	0	0 0	0	0	0
NOTES	1165 THROUGH 1184 0 0 0 0 0 0	0	0 55	0	2	2 0	0	0	Э
	1185 THROUGH 1185							-	-

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 35 SECONDS INTO EXECUTION.

PATTERN	NOTES	PELATED TO	NOTES	TEST	LENGTH
1 2 3 4 5 6 7 8 9 10 11 11 12 13 1 11 15 11 16 11 17 11 18 12 22 23 23 24 25 23 24 25 23 24 25 26 27 28 29 30 31 30 31	1 TO 9 1 TO 9 1 TO 9 1 TO 9 5 TO 13 5 TO 13 5 TO 17 9 TO 17 9 TO 17 9 TO 17 9 TO 29 7 TO 29 7 TO 29 7 TO 30 8 TO 30 8 TO 30 9 TO 30 8 TO 30 9 TO 32 0 TO 32 0 TO 32 0 TO 32 0 TO 32 1 TO 33 1 TO 37 2 TO 37 2 TO 37 3 TO 41 3 TO 45 7 TO 45	related to	121 TO 129 273 TO 28 833 TO 84 125 TO 13 277 TO 28 837 TO 84 129 TO 13 281 TO 29 841 TO 84 133 TO 13 285 TO 29 845 TO 85 137 TO 14 289 TO 30 849 TO 86 138 TO 15 301 TO 30 861 TO 86 150 TO 15 302 TO 30 861 TO 86 151 TO 15 303 TO 30 863 TO 86 151 TO 15 303 TO 30 863 TO 86 152 TO 15 304 TO 30 864 TO 86 153 TO 15 304 TO 30 865 TO 86 153 TO 16 305 TO 31 865 TO 87 161 TO 16	9 14 14 14 14 14 14 14 14 14 14 14 14 14 1	333333333333333333333333333333333333333
39 4 40 4 41 4 42 10	1 TO 49		401 TO 409 473 TO 48 873 TO 88	1 14	3 3 3

PATTERN	NCTES	RELATED T	O NOTES	TEST L	ENGTH
43 44	102 TO 104		325 TO 327 581 TO 583		3 3
45	121 TO 129		1041 TO 1049		
46	125 TO 133		1045 TO 1053		3 3 3 3
47	129 TO 137		1049 TO 1057		3
48 49	133 TO 138		1053 TO 1058		3
50	137 TO 149		1057 TO 1069		3
51	149 TO 151		917 TO 919		3
52	149 TO 151		933 TO 935		3 3 3 3
53	149 TO 151		949 TO 951		3
54	149 TO 151		965 TO 967	14	
55	149 TO 151		981 TO 983		3 3 3 3
56	149 TO 151		997 TO 999		3
57	149 TO 151		1069 TO 1071		3
58 50	150 TO 152		417 TO 419		3 3 3
59 60	150 TO 152 150 TO 152		489 TO 491 918 TO 920		3
61	150 TO 152		934 TO 936		3
62	150 TO 152		950 TO 952		3
63	150 TO 152		966 TO 968		3 3 3 3
64	150 TO 152		982 TO 984		3
65	150 TO 152		998 TO 1000	14	3
66	150 TO 152		1009 TO 1011		
67	150 TO 152		1070 TO 1072		3 3 3
68	151 TO 153		919 TO 921		3
69 70	151 TO 153		935 TO 937		3
70 71	151 TO 153		951 TO 953 967 TO 969		3
72	151 TO 153		983 TO 985		3
73	151 TO 153		999 TO 1001		3
74	151 TO 153		1071 TO 1073		3
75	152 TO 157		1072 TO 1077		
76	153 TO 161		1073 TO 1081	14	3 3 3
77	157 TO 165		1077 TO 1085	_	3
78	161 TO 169		601 TD 609		3
**** FOR	273 TO 281		121 TO 129		
**** FOR **** FOR	277 TO 285 281 TO 289		125 TO 133		
**** FOR	285 TO 290		133 TO 138		
**** FOR	289 TO 301			ABOVE ***	
**** FOR	290 TO 302		138 TO 150		
**** FOR	301 TO 303		149 TO 151		
**** FOR	302 TO 304		150 TO 152		
**** FOR	303 TO 305		151 TO 153		
**** FOR	304 TO 309		152 TO 157		
**** FOR	305 TO 313		153 TO 161		
**** FOR	309 TO 317	-	157 TO 165		
**** FOR	325 TO 327 401 TO 409		101 TO 103		
79	405 TO 413	-	605 TO 613		3
· ·				= -	-

PATTERN NCTES RELATED TO NOTES TEST LENGTH

PATIERN	NCI	E 3	KELATED TO	וי כ	1016.	3	153) i	LENGI
80	409 TO	417		609	TO	617	14	_	3
81	413 TO			613	TO	618	14		3
**** FOR	417 TO		SEE	30	TO	32	ABOVE		
82	418 TO		,	618	TO	620	14		3
83	419 TO	421		619	CT	621	14		3
84	420 TO	429		620	TO	629	14	,	3
**** FOR	473 TO	481	SEE	161	TO	169	ABOVE	***	*
**** FOR	477 TO	485	, SEE	405	TO	413	ABOVE	***	*
**** FOR	481 TO			409	TO	417	ABOVE	***	
**** FOR	485 TO	490		413	TO	418	ABOVE	***	
**** FOR	489 TO			30	TO		ABOVE	***	
**** FOR	490 TO			418	TO	420	ABOVE		
**** FOR	491 TO			419	TO	421	ABOVE		
**** FOR	492 TO			420	TO	429	ABOVE		
**** FOR	581 TO			101	TO		ABOVE		
**** FOR **** FOR	582 TO			102	TO		ABOVE	***	
**** FOR ****	601 TO			41	TO	49	ABOVE	***	
85	617 TO 618 TO	619 ₉	, SEE	150 1010	TO :	152 1012	ABOVE		* 3
**** FOR	833 TO		SEE	121	TO	129		***	
**** FOR	837 TO			125	TO	133	ABOVE	***	
**** FOR	841 TO			129	TO	137	ABOVE	***	
**** FOR	845 TO				TO	138	ABOVE		
**** FOR	849 TO			137	TO	149			*
**** FOR	850 TO	862		138	TO	150	ABOVE	***	*
**** FOR	861 TO	863	SEE	149	TO	151	ABOVE	***	*
**** FOR	862 TO	864	SEE	150	TO	152	ABOVE	***	*
**** FOR	863 TQ			151	TO	153	ABOVE	***	
**** FOR	864 TO			152	TO	157	ABOVE	***	
**** FOR	865 TO			153	TO	161	ABOVE	***	
**** FOR	869 TO					165	ABOVE	***	
**** FOR	873 TO			161	TO	169	ABOVE	***	
**** FOR **** FOR	917 TO			29	TO	31	ABOVE	***	
**** FOR **** FOR	918 TO 919 TO			30 31	TO TO	<i>32</i> 33	ABOVE	***	
**** FOR	933 TO			29	TO	31	ABOVE	***	
**** FOR	934 TO			30	TO		ABOVE		
**** FOR	935 TO			31	TO		ABOVE		
**** FOR	949 TO	951		29	TO	31	ABOVE	***	
**** FOR	950 TO			30	TO	32	ABOVE	***	
**** FOR	951 TO			31	TO	33	ABOVE	***	
**** FOR	965 TO	967		29	TO	31	ABOVE	***	*
**** FOR	966 TO	968	SEE	30	TO	32	ABOVE	***	*
**** FOR	967 TO	969	SEE	31	TO	33	ABOVE	***	*
**** FCR	981 TO			29	TO	31	ABOVE	***	
**** FOR	982 TO			30	TO	32	ABOVE	***	
**** FOR	983 TO				TO		ABOVE	***	
**** FOR	997 TO			29	TO	31	ABOVE	***	
**** FOR	598 TO	-		30	TO	32	ABOVE	***	
**** FOR	999 TO			31	TO	33	ABOVE	***	
**** FOR	1009 TO	1011	, SEE	30	TO	32	ABOVE	***	₹

PATTER	١	NCT	S	RELATED TO	١	OTE	S	TES	ST LEN	IGTH
**** F(R 1010	To	1012,	SEE	418	TO	420	ABOVE	****	
**** F(OR 1041	TO	1049	SEE	1	TO	9	ABOVE	****	
**** F(R 1045	TO	1053,	SEE	5	TO	13	ABOVE	***	
**** F(R 1049	TO	1057,	SEE	9	TO	17	ABOVE	***	
**** F(R 1053	TO	1058,	SEE	13	TO	18	ABOVE	****	
**** F(R 1057	TO	1069,	SEE	17	TO	29	ABOVE	****	
**** F(DR 1058	TO	1070,	SEE	18	TO	30	ABOVE	****	
**** F(OR 1C69	TO	1071,	SEE	29	TO	31	ABOVE	****	
**** F(DR 1070	TO	1072,	SEE	30	TO	32	ABOVE	****	
**** F(OR 1071	TO	1073,	SEE	31	TO	33	ABOVE	****	
**** F	OR 1072	TO	1077,	SEE	32	TO	37	ABOVE	****	
**** F(OR 1073	TO	1081,	SEE	33	TO	41	ABOVE	***	
**** F(R 1077	TO	1085	SEE	37	TO.	45	ABOVE	***	

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 342 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENG TH
86 87 88	1 TO 1 1 TO 1 1 TO 1	3 3	121 TO 133 273 TO 285 833 TO 845	14 14 14	4 4 4
8 9 90	5 TO 1 5 TO 1		125 TO 137 277 TO 289	14 14	4 4
91	5 TO 1		837 TO 849	14	4
92 93	9 TO 1 9 TO 1		129 TO 138 281 TO 290	14 14	4 4
94	9 TO 1		841 TO 850	14	4
95	13 TO 2	9	133 TO 149	14	4
96	13 TO 2		285 TO 301	14	4
57	13 TO 2		845 TO 861	14	4
98 99	17 TO 3		137 TO 150 289 TO 302	14 14	4 4
100	17 TO 3		849 TO 862	14	4
101	18 TO 3		138 TO 151	14	4
102	18 TO 3		290 TO 303	14	4
103	18 TO 3		850 TO 863	14	4
104	29 TO 3		149 TO 152	14	4
105 106	29 TO 3 29 TO 3		301 TO 304 861 TO 864	14 14	4 4
107	30 TO 3		150 TO 153	14	4
108	30 TO 3		302 TO 305	14	4
109	30 TO 3	3	862 TO 865	14	4
110	31 TO 3		151 TO 157	14	4
111	31 TO 3		303 TO 309	14	4
112	31 TO 3		863 TO 869	14	4
113 114	32 TO 4 32 TO 4		152 TO 161 304 TO 313	14 14	4 4
115	32 TO 4		864 TO 873	14	4
116	33 TO 4		153 TO 165	14	4
117	33 TO 4		305 TO 317	14	4
118	33 TO 4		865 TO 877	14	4
119	37 TO 4		157 TO 169 869 TO 881	14	4
120 121	121 TO 13		869 TO 881 1041 TO 1053	14 14	4 4
122	125 TO 13		1045 TO 1057	14	4
123	129 TO 13		1049 TO 1058	14	4
124	133 TO 14		1053 TO 1069	14	4
125	137 TO 15		1057 TO 1070	14	4
126	138 TO 15		1058 TO 1071	14	4
127 128	149 TO 15 149 TO 15		917 TO 920 933 TO 936	14 14	4 4
129	149 TO 15		949 TO 952	14	4

PATTERN	NOTES	RELATED TO	C NOTES	TEST	LENGTH
130 131 132 133 134 135 136 137	149 TO 152 149 TO 152 149 TO 152 149 TO 152 150 TO 153 150 TO 153 150 TO 153 150 TO 153		965 TO 968 981 TO 984 997 TO 1000 1069 TO 1072 918 TO 921 934 TO 937 950 TO 953 966 TO 969 982 TO 985	14 14 14 14 14 14 14	44444444
139 140 141 142 143 **** FOR **** FOR **** FOR	150 TO 153 150 TO 153 151 TO 157 152 TO 161 153 TO 165 273 TO 285 277 TO 289 281 TO 290 285 TO 301	SEE SEE	998 TO 1001 1070 TO 1073 1071 TO 1077 1072 TO 1081 1073 TO 1085 121 TO 133 125 TO 137 129 TO 138 133 TO 149	14 14 14 ABOVE *** ABOVE ***	k k
**** FOR **** FOR **** FOR **** FOR **** FOR **** FOR **** FOR	289 TO 302 290 TO 303 301 TO 304 302 TO 305 303 TO 309 304 TO 313 305 TO 317 401 TO 413	SEE SEE SEE SEE SEE SEE SEE	137 TO 150 138 TO 151 149 TO 152 150 TO 153 151 TO 157 152 TO 161 153 TO 165 601 TO 613	ABOVE *** ABOVE *** ABOVE *** ABOVE *** ABOVE ***	k k k k k
145 146 147 148 149 150 151	405 TO 417 409 TO 418 413 TO 419 417 TO 420 418 TO 421 418 TO 421 419 TO 429 419 TO 429		605 TO 617 609 TO 618 613 TO 619 617 TO 620 618 TO 621 618 TO 621 619 TO 629 619 TO 629	14 14 14 14 14 14	+ 4 4 4 4 4 4 4 4
**** FOR **** FOR **** FOR **** FOR **** FOR **** FOR **** FOR	473 TO 485 477 TO 489 481 TO 490 485 TO 491 489 TO 492 490 TO 493 490 TO 493 491 TO 501	SEE SEE SEE SEE SEE SEE SEE	401 TO 413 405 TO 417 409 TO 418 413 TO 419 417 TO 420 418 TO 421 418 TO 421 419 TO 429	ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	k k k k k
*** FOR 153 *** FOR *** FOR *** FOR *** FOR *** FOR *** FOR	491 TO 501 617 TO 620 833 TO 845 837 TO 849 841 TO 850 845 TO 861 849 TO 862 850 TO 863 861 TO 864	, SEE , SEE , SEE , SEE , SEE	419 TO 429 1009 TO 1012 121 TO 133 125 TU 137 129 TO 138 133 TO 149 137 TO 150 138 TO 151 149 TO 152	14 ABOVE **** ABOVE **** ABOVE **** ABOVE **** ABOVE ****	4 k k k k k

PATTERN	NOT	ES F	RELATED TO	NOTE	S	TES	T LENGTH
**** FOR	862 10	865.	SEE	150 TO	153	ABOVE	****
**** FOR	863 TO	•	SEE	151 TO	157		****
**** FOR	864 TO	•	SEE	152 TO	161	ABOVE	***
**** FOR	865 TO	~	SEE	153 TO	165	ABOVE	****
**** FOR	917 TO	920,	SEE	29 TO	32	ABOVE	***
**** FOR	918 TO	921.	SEE	30 TO	33	ABOVE	****
**** FOR	933 TO	936,	SEE	29 TO	32	ABOVE	***
**** FOR	934 TO	937,	SEE	30 TO	33	ABOVE	***
**** FOR	949 TO	952,	SEE	29 TO	32	ABOVE	***
**** FOR	950 TO	953,	SEE	30 TO	33	ABOVE	***
**** FGR	965 TO	968,	SEE	29 TO	32	ABOVE	***
**** FOR	966 TO	969,	SEE	30 TO	33	ABOVE	****
**** FOR	981 TO	984,	SEE	29 TO	32		***
**** FCR	982 TO	. – - •	SEE	30 TO	3 3	ABOVE	***
**** FOR	997 TO	1000,	SEE	29 TO	32	ABOVE	***
**** FOR	998 TO	•	SEE	30 TO	33		***
**** FOR	1009 TO	1012,	SEE	417 TO	420	ABOVE	***
**** FOR	1041 TO		SEE	1 TO	13		****
**** FOR	1045 TO	1057,	SEE	5 TO	17		***
**** FOR	1049 TO	1058,	SEE	9 TO	18	ABOVE	***
**** FOR	1053 TO	1069,	SEE	13 TO	29		***
**** FOR	1057 TO	1070,	SEE	17 TO	30		***
**** FOR	1058 TO	1071,	SEE	18 TO	31	ABOVE	****
**** FOR	1069 TO		SEE	29 TO	32		***
**** FOR	1070 TO	7	SEE	30 TO	33	ABOVE	***
**** FOR	1071 10	1077,	SEE	31 TO	37		***
**** FOR	1072 TO	1081,	SEE	32 TO	41	70016	****
**** FOR	1073 TO	1085,	SEE	33 TO	45	ABOVE	***

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 409 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO	NOTES	TEST	LENGTH
154 155	1 TO 17 1 TO 17	12 27		14 14	5
156	1 70 17	83		14	5 5
157	5 TO 18	12		14	5
158	5 TO 18	27		14	5
159	5 TO 18	83		14	5
160	9 TO 29	12		14	5
161	9 TO 29	28	1 TO 301	14	5
162	9 TO 29	84		14	5
163	13 TO 30	13		14	5 5 5
164	13 70 30	28		14	5
165	13 TO 30	84		14	
166	17 TO 31	13		14	5
167	17 TO 31	28		14	5
168	17 TO 31	84 13		14	5
169 170	18 TO 32 18 TO 32	13 29		14 14	5 5
171	18 TO 32	85		14	5 5
172	29 TO 33	14		14	5
173	29 TO 33	30		14	5
174	29 TO 33	86		14	5
175	30 TO 37	15		14	5
176	30 TO 37	30		14	5
177	30 TO 37	86		14	5
178	31 TO 41	15		14	5 5
179	31 TO 41	30	3 TO 313	14	5
180	31 TO 41	86		14	5
181	32 TO 45	15		14	5
182	32 TO 45	30	· -	14	5
183	32 TO 45	86		14	5
184	33 TO 49		3 TO 169	14	5
185	33 TO 49		5 TO 881	14	5
186	121 TO 137 125 TO 138	104		14	5
187 188	125 TO 138 129 TO 149	1 04 1 04		14 14	5 5
189	133 TO 150	105		14	5
190	137 TO 151	105		14	5
191	138 TO 152	105		14	5
192	149 TO 153	91		14	5
193	149 TO 153	93		14	5
194	149 TO 153	94		14	5
195	149 TO 153	96		14	5
196	149 TO 153	98		14	5
197	149 TO 153	99	7 TO 1001	14	5

PATTERN	NCTES	RELATED TO	O NOTES	TEST L	ENGTH
198 199 200 201 *** FOR *** FOR *** FOR *** FOR *** FOR *** FOR 30 *** FOR *** FOR 203 204 203 204 205 206 207 208 *** FOR *** FOR ** F	77 TO 418 77 TO 417 78 TO 429 78 TO 418 79 TO 419 78 TO 429	SEE	1069 TO 107: 1070 TO 107: 1071 TO 108: 1072 TO 108: 121 TO 13: 125 TO 13: 129 TO 14: 133 TO 15: 138 TO 15: 138 TO 15: 150 TO 15: 151 TO 16: 601 TO 61: 605 TO 61: 605 TO 61: 607 TO 62: 618 TO 62: 618 TO 62: 401 TO 41: 405 TO 41: 405 TO 41: 407 TO 42: 417 TO 42: 418 TO 42: 418 TO 42:	14 14 14 14 14 14 14 14 14 14 14 14 14 1	5555 55555 55555
*** FOR 49 *** FOR 83 *** FOR 84 *** FOR 84 *** FOR 84 *** FOR 84 *** FOR 85 *** FOR 86 *** FOR 86 *** FOR 86	90 TO 5016 33 TO 8496 37 TO 8506 41 TO 8616 45 TO 8626 49 TO 8636 50 TO 8646 51 TO 8656 52 TO 8656 53 TO 8736 54 TO 9216 53 TO 9376 54 TO 9536 55 TO 9696 56 TO 10576 57 TO 10716 58 TO 10726	SEE	418 TO 429 121 TO 137 125 TO 138 129 TO 149 133 TO 150 137 TO 157 138 TO 157 149 TO 157 150 TO 157 151 TO 167 29 TO 33 30 31 TO 170 32 33 34 TO 170 35 TO 169 36 TO 26	7 ABOVE **** 8 ABOVE **** 9 ABOVE **** 9 ABOVE **** 1 ABOVE **** 1 ABOVE **** 2 ABOVE **** 2 ABOVE **** 3 ABOVE **** 6 ABOVE **** 6 ABOVE **** 6 ABOVE **** 6 ABOVE **** 7 ABOVE **** 8 ABOVE ****	

PATTE	ERN	ŀ	NOTE	S	RELATED T	ro 1	OTES		TES	T L	ENGTH
****	FOR	1070	TO	1077,	SEE	30	TO	3 7	ABOVE	****	
****	FOR	1071	TO	1081,	SEE	31	TO	41	ABOVE	****	
***	FOR	1072	TO	1085	SEF	= 32	TO	45	AROVE	***	

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 479 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO) NOTES	TEST LENGT	Н
209 210	1 TO 18		121 TO 138 273 TO 290	14 6 14 6	
211	1 TO 18		833 TO 850	14 6	
212	5 TO 29		125 TO 149	14 6	
213	5 TO 29		277 TO 301	14 6	
214	5 TO 29		837 TO 861	14 6	
215	9 TO 30		129 TO 150	14 6	
216	9 TO 30		281 TO 302	14 6	
217	9 TO 30		841 TO 862	14 6	
218	13 TO 31		133 TO 151	14 6	
219	13 TO 31		285 TO 303	14 6	
220	13 TO 31		845 TO 863	14 6	
221	17 TO 32		137 TO 152 289 TO 304	14 6	
222 223	17 TO 32 17 TO 32		289 TO 304 849 TO 864	14 6 14 6	
224	18 TO 33		138 TO 153	14 6	
225	18 TO 33		290 TO 305	14 6	
226	18 TO 33		850 TO 865	14 6	
227	29 TO 37		149 TO 157	14 6	
228	29 TO 37		301 TO 309	14 6	
229	29 TO 37		861 TO 869	14 6	
230	30 TO 41		150 TO 161	14 6	
231	30 TO 41		302 TO 313	14 6	
232	30 TO 41		862 TO 873	14 6	
233	31 TO 45		151 TO 165	14 6	
234	31 TO 45		303 TO 317	14 6	
235 236	31 TO 45 32 TO 49		863 TO 877 152 TO 169	14 6 14 6	
237	32 TO 49		864 TO 881	14 6	
238	121 TO 138		1041 TO 1058	14 6	
239	125 TO 149		1045 TO 1069	14 6	
240	129 TO 150		1049 TO 1070	14 6	
241	133 TO 151		1053 70 1071	14 6	
242	137 TO 152		1057 TO 1072	14 6	
243	138 TO 153		1058 TO 1073	14 6	
244	149 TO 157		1069 TO 1077	14 6	
245	150 TO 161		1070 TO 1081	14 6	
246	151 TO 165		1071 TO 1085	14 6	
**** FOR	273 TO 290		121 TO 138	ABOVE ****	
**** FOR **** FOR	277 TO 301 281 TO 302		125 TO 149 129 TO 150	ABOVE ****	
# * * * FOR * * * * FOR	281 TO 302 285 TO 303		129 TO 150 133 TO 151	ABOVE ***	
**** FOR	289 TO 304		137 TO 152	ABOVE ***	
**** FOR	290 TO 305		138 TO 153	ABOVE ****	

PATTERN	NCTES	RELATED TO	NOTES	TEST L	ENGTH
**** FOR	301 TO 309	· •		ABOVE ***	
**** FOR	302 TO 313		150 TO 161	ABOVE ***	
* * * * FOR	303 TO 317	•	151 TO 165	ABOVE ***	K
247	401 TO 418		601 TO 618	14	6
248	405 TO 419		605 TO 619	14	6
249	409 TO 420		639 TO 620	14	6
250	413 TO 421		613 TO 621	14	6
251	417 TO 429		617 TO 529	14	6
**** FOR	473 TO 490		401 TO 418		
**** FOR	477 TO 491	•	405 TO 419	ABOVE ***	
**** FOR	481 TO 492	•	409 TO 420		
**** FOR	485 TO 493		413 TO 421		
**** FOR	489 TO 501	· -	-	ABOVE ***	
**** FOR	833 TO 850		121 TO 138		
**** FOR	837 TO 861		125 TO 149	ABOVE ***	
**** FOR	841 TO 862	•	129 TO 150	ABOVE ***	
**** FOR	845 TO 863		133 TO 151	ABOVE ***	
**** FOR	849 TO 864	· ·	137 TO 152		
**** FOR	850 TO 865	= -	138 TO 153	ABOVE ***	
* * * FOR	861 TO 869		149 TO 157		
* *** FOR	862 TO 873	=	150 TO 161	ABOVE ***	
**** FOR	863 TO 877	•	151 TO 165	ABOVE ***	•
**** FOR	1041 TO 1058	•	1 70 18		
	1045 TO 1069	-	5 TO 29		
**** FOR	1049 TO 1070	-	9 TO 30	ABOVE ***	
	1053 TO 1071		13 TO 31	ABOVE ***	
* *** FOR	1057 TO 1072	• SEE	17 TO 32	ABOVE ****	
**** FOR	1058 TO 1073		18 TO 33	ABOVE ****	t
	1069 TO 1077	-	29 TO 37	ABOVE ***	
**** FOR	1070 TO 1081		30 TO 41	ABOVE ***	•
**** FOR	1071 TO 1085	• SEE	31 TO 45	ABOVE ****	

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 551 SECONDS INTO EXECUTION.

252	PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
254						
255						
256						
257 5 TO 30 837 TO 862 14 7 258 9 TO 31 129 TO 151 14 7 259 9 TO 31 281 TO 303 14 7 260 9 TO 31 841 TO 863 14 7 261 13 TO 32 133 TO 152 14 7 262 13 TO 32 285 TO 304 14 7 263 13 TO 32 845 TO 864 14 7 264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 301 TO 313 14 7 271 29 TO 41 861 TO 873 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 302 TO 317 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 869 14 7 278 121 TO 149 1041 TO 169 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1071 14 7 285 150 TO 165 1077 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
258 9 TO 31 129 TO 151 14 7 259 9 TO 31 281 TO 303 14 7 260 9 TO 31 841 TO 863 14 7 261 13 TO 32 133 TO 152 14 7 262 13 TO 32 285 TO 304 14 7 263 13 TO 32 845 TO 864 14 7 264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 850 TO 869 14 7 269 18 TO 37 850 TO 869 14 7 270 2						
259 9 TO 31 281 TO 303 14 7 260 9 TO 31 841 TO 863 14 7 261 13 TO 32 133 TO 152 14 7 262 13 TO 32 285 TO 304 14 7 263 13 TO 32 845 TO 864 14 7 264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 302 TO 317 14 7 274 30 TO 45 862 TO 877 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 863 TO 881 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1058 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1077 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
260 9 TO 31 841 TO 863 14 7 261 13 TO 32 133 TO 152 14 7 262 13 TO 32 285 TO 304 14 7 263 13 TO 32 845 TO 864 14 7 264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 302 TO 317 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 863 TO 881 17 7 277 31 TO 49 863 TO 881 17 7 278 121 TO 149 1041 TO 169 14 7 279 125 TO 150 1041 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1058 TO 1070 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1070 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 286 401 TO 419 601 TO 619 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7		_				
261						
262 13 TO 32 285 TO 304 14 7 263 13 TO 32 845 TO 864 14 7 264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 273 30 TO 45 862 TO 877 14 7 275 30 TO </td <td></td> <td></td> <td></td> <td></td> <td>14</td> <td>7</td>					14	7
264 17 TO 33 137 TO 153 14 7 265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 271 29 TO 41 861 TO 873 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO </td <td></td> <td>13 TO 3</td> <td>2</td> <td>285 TO 304</td> <td>14</td> <td>7</td>		13 TO 3	2	285 TO 304	14	7
265 17 TO 33 289 TO 305 14 7 266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 271 29 TO 41 861 TO 873 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO </td <td>263</td> <td>13 TO 3</td> <td>2</td> <td>845 TO 864</td> <td>14</td> <td>7</td>	263	13 TO 3	2	845 TO 864	14	7
266 17 TO 33 849 TO 865 14 7 267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 13 7 278 121 TO 149 1041 TO 1069 14 7 280 129	264	17 TO 3	3	137 TO 153	14	7
267 18 TO 37 138 TO 157 14 7 268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 17 7 278 121 TO 149 1041 TO 1069 14 7 280 129 TO 151 1049 TO 1071 14 7 281 <td< td=""><td>265</td><td></td><td></td><td>289 TO 305</td><td>14</td><td>7</td></td<>	265			289 TO 305	14	7
268 18 TO 37 290 TO 309 14 7 269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 280 129 TO 151 1045 TO 1070 14 7 281 133 TO 152 1053 TO 1071 14 7 282					14	
269 18 TO 37 850 TO 869 14 7 270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 280 129 TO 151 1045 TO 1070 14 7 281 133 TO 152 1053 TO 1071 14 7 282 137 TO 153 1057 TO 1073 14 7 283					14	
270 29 TO 41 149 TO 161 14 7 271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
271 29 TO 41 301 TO 313 14 7 272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 17 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 28						
272 29 TO 41 861 TO 873 14 7 273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TG 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
273 30 TO 45 150 TO 165 14 7 274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TG 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7						
274 30 TO 45 302 TO 317 14 7 275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TG 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
275 30 TO 45 862 TO 877 14 7 276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
276 31 TO 49 151 TO 169 14 7 277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7				_		
277 31 TO 49 863 TO 881 14 7 278 121 TO 149 1041 TO 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
278 121 TO 149 1041 TG 1069 14 7 279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
279 125 TO 150 1045 TO 1070 14 7 280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
280 129 TO 151 1049 TO 1071 14 7 281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
281 133 TO 152 1053 TO 1072 14 7 282 137 TO 153 1057 TO 1073 14 7 283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
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283 138 TO 157 1058 TO 1077 14 7 284 149 TO 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
284 149 TD 161 1069 TO 1081 14 7 285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
285 150 TO 165 1070 TO 1085 14 7 286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
286 401 TO 419 601 TO 619 14 7 287 405 TO 420 605 TO 620 14 7						
287 405 TO 420 605 TO 620 14 7						
· · · · · · · · · · · · · · · · · · ·						
288 409 TO 421 609 TO 621 14 7	288	-		609 TO 621	14	7
289 413 TO 429 613 TO 629 14 7						

719
*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 570 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
290	1 TO 30		121 TO 150	14	8
291	1 TO 30		273 TO 302	14	8
292	1 TO 30)	833 TO 862	14	8
293	5 TO 31		125 TO 151	14	8
294	5 TO 31		277 TO 303	14	8
295	5 TO 31		837 TO 863	14	8
296	9 TO 32		129 TO 152	14	8
297	9 TO 32		281 TO 304	14	8
298	9 TO 32		841 TO 864	14	8
299	13 TO 33		133 TO 153	14	8
300	13 TO 33		285 TO 305	14	8
301	13 TO 33		845 TO 865	14	8
302	17 TO 37		137 TO 157	14	8
303	17 TO 37		289 TO 309	14	8
304	17 TO 37	•	849 TO 869	14	8
305	18 TO 41		138 TO 161	14	8
306	18 TO 41		290 TO 313	14	8
307	18 TO 41		850 TO 873	14	8
308	29 TO 45		149 TO 165	14	8
309	29 TO 45		301 TO 317	14	8
310	29 TO 45		861 TO 877	14	8
311	30 TO 49		150 TO 169	14	8
312	30 TO 49		862 TO 881	14	8
313	121 TO 150		1041 TO 1070	14	8
314	125 TO 151		1045 TO 1071	14	8
315	129 TO 152		1049 TO 1072	14	8
316	133 TO 153		1053 TO 1073	14	8
317	137 TO 157		1057 TO 1077	14	8
318	138 TO 161		1058 TO 1081	14	8
319	149 TO 165		1069 TO 1085	14	8
320	401 TO 420		601 TO 620	14	8
321	405 TO 421		605 TO 621	14	8
322	409 TO 429		609 TO 629	14	8

720
*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 589 SECONDS INTO EXECUTION.

P ATTERN	N	IOTE	S	RELATED	TO	١	OTE	ES	TEST	LENGTH
323	1	TO	31			121	TO	151	14	9
324	ī	TO	31			273	TO	303	14	9
325	ī	TO	31			833	TO	863	14	9
326	5	TO	32			125	TO	152	14	9
327	5	TO	32			277	TO	304	14	9
328	5	TO	32			837	TO	864	14	9
329	9	TO	33			129	TO	153	14	9
330	9	TO	33			281	TO	305	14	9
331	9	TO	33			841	TO	865	14	9
332	13	TO	37			133	TO	157	14	9
333	13	TO	37			285	TO	309	14	9
334	13	TO	37			845	TO	869	14	9
335	17	TO	41			137	TO	161	14	9
336	17	TO	41			289	TO	313	14	9
337	17	TO	41			849	TO	873	14	9
338	18	TO	45			138	TO	165	14	9
339	18	TO	45			290	TO	317	14	9
340	18	TO	45			850	TO	877	14	9
341	29	TO	49			149	TO	169	14	9
342	29	TO	49			861	TO	881	14	9
343	121	TO	151			041	TO	1071	14	9
344	125	TO	152			045	TO	1072	14	9
345	129	TO	153			049	TO	1073	14	9
346	133	TO	157			053	TO	1077	14	9
347	137	TO	161			057	TO	1081	14	9
348	138	TO	165		1	058	TO	1085	14	9
349	401	TO	421			601	TO	621	14	9
350	405	TO	429			605	TO	629	14	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 607 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOTE	ES TEST	LENGTH
351	1 TO 32	121 TO	152 14	10
352	1 TO 32	273 TO	304 14	
353 354	1 TO 32 5 TO 33 5 TO 33	833 TO 125 TO	864 14 153 14	10 10
355	5 TO 33	277 TO	305 14	10
356	5 TO 33	837 TO	865 14	10
357	9 TO 37	129 TO	157 14	10
358	9 TO 37	281 TO	309 14	10
359	9 TO 37	841 TO	869 14	10
360	13 TO 41	133 TO	161 14	10
361	13 TO 41	285 TO	313 14	10
362	13 TO 41	845 TO	873 14	10
363	17 TO 45	137 TO	165 14	10
364	17 TO 45	289 TO	317 14	10
365	17 TO 45	849 TO	877 14	10
366	18 TO 49	138 TO	169 14	10
367	18 TO 49	850 TO	881 14	10
368	121 TO 152	1041 TO	1072 14	10
369 370	125 TO 153 129 TO 157	1041 TO 1045 TO 1049 TO	1073 14 1077 14	10 10 10
371	133 TO 161	1053 TO	1081 14	10
372	137 TO 165	1057 TO	1085 14	10
373	491 TO 429	601 T 0	629 14	10

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SEARCH FOR PATTERNS OF 11 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 625 SECONDS INTO EXECUTION.

PATTERN	NOTE	S	RELATED	TO	٨	OT	E S	TEST	LENGTH
374	1 TO	33			121	TO	153	14	11
375	1 TO	33			273	TO	305	14	11
376	1 TO	33			833	TO	865	14	11
377	5 T O	37			125	TO	157	14	11
378	5 TO	37			277	TO	309	14	11
379	5 TO	37			837	TO	869	14	11
380	9 TO	41			129	TO	161	14	11
381	9 TO	41			281	TO	313	14	11
382	9 TO	41			841	TO	873	14	11
383	13 TO	45			133	TO	165	14	11
384	13 TO	45			285	TO	317	14	11
385	13 TO	45			845	TO	877	14	11
386	17 TO	49			137	TO	169	14	11
387	17 TO	49			849	TO	138	14	11
388	121 TO	153		1	1041	TO	1073	14	11
389	125 TO	157		1	1045	TO	1077	14	11
390	129 TO	161		1	1049	TO	1081	14	11
391	133 TO	165		1	1053	TO	1085	14	11

SEARCH FOR PATTERNS OF 12 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 642 SECONDS INTO EXECUTION.

PATTERN	NOTE	S	RELATED	TO	N	OTE	E S	TEST	LENGTH
392 393	1 TO	37 37			121 273	TO TO	157 309	14 14	12 12
394	1 TO	37			833	TO	869	14	12
395 396	5 TO 5 TO	41 41			125 277	TO TO	161 313	14 14	12 12
397 398	5 TO 9 TO	41 45			837 129	TO TO	873 165	14 14	12 12
399 400	9 TO 9 TO	45 45			281 841	TO TO	317 877	14 14	12 12
401	13 TO	49			133	TO	169	14	12
402 403	13 TO 121 TO	49 157		1	845	TO	881 1077	14 14	12 12
404 405	125 TO 129 TO	161 165			045 1049	TO TO	1081 1085	14 14	12 12

724
*** TYPE I LISTING CONTINUED ***

SEARCH FOR PATTERNS OF 13 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 659 SECONDS INTO EXECUTION.

PATTERN	١	OTE	S	RELATED	TO	١	10T	ES	TEST	LENGTH
406	1	TO	41			121	TO	161	14	13
407	1	TO	41			273	TO	313	14	13
408	1	TO	41			833	TO	873	14	13
409	5	TO	45			125	TO	165	14	13
410	5	TO	45			277	TO	317	14	13
411	5	TO	45			837	TO	877	14	13
412	9	TO	49			129	TO	169	14	13
413	9	TO	49			841	TO	881	14	13
414	121	TO	161		1	041	TO	1081	14	13
415	125	TO	165		1	.045	TO	1085	14	13

SEARCH FOR PATTERNS OF 14 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 676 SECONDS INTO EXECUTION.

PATTERN	P	NCTE	S	RELATED	TO	ı	ITON	E S	TEST	LENGTH
416	1	TO	45			121	TO	165	14	14
417	1	TO	45			273	TO	317	14	14
418	1	TO	45			833	TO	877	14	14
419	5	TO	49			125	TO	169	14	14
420	5	TO	49			837	TO	881	14	14
421	121	TO	165		1	041	TO	1085	14	14

SEARCH FOR PATTERNS OF 15 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 692 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED	TO NOTES	TEST	LENGTH
422	1 TO	49	121 TO 169	14	15
423	1 TO	49	833 TO 881	14	15

SEARCH FOR PATTERNS OF 16 NOTES IN LENGTH -- EXACT RHYTHM WITH EXACT INVERSION WAS BEGUN AT 708 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 423 PATTERNS LOCATED.

*** TYPE II LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE EXACT RHYTHM WITH EXACT INVERSION

	LOCAT: OF FIR OCCURRE	RST	TOTAL NUMBER OF OCCURRENCES	LENGTH OF PATTERN
JRIGINAL PATTERN	1 TO	49	3	15
SUBPATTERN SUBPATTERN	41 TO 30 TO	49 32	5 5	3 3

**** TEST 14 COMPLETED AT 799 SECONDS INTO EXECUTION ****

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******* MUSIC MELNDIC PATTERN ANALYSIS ********

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

TEST REQUESTED 24

UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

NOTES	36						-1	ა	38	0	0	٥	43	0	-1	0
NOTES	17 43 3					32 0	0	3	0	0	0	c	36	38	41	38
NOTES	33 36						0	၁	31	o	0	Э	29	0	0	0
NOTES	49 28					64 0	0	0	30	0	0	0	-1	0	0	0
NOTES	65 33						0	0	31	0	0	2	-1	0	0	0
NOTES	81 30	-					0	0	29	0	0	Э	-1	0	0	0
NOTES	97 28				-		52	51	52	0	0	0	52	0	0	0
NOTES	113 49						0	0	49	0	0	0	47	0	-1	0
NOTES	129 47						-1	0	42	52	0	0	0	0	0	0
NOTES	145 0		THRO	UGH	1	160				o			53	0	0	0
NOTES		. 1	THR O	UGH	l ;				57				-1		0	0
HOTES		, 1	THRO	UGH	1	192			43		0	0		0	0	0
NOTES		3	THRC	UGH	1 3	208	0		40		0	0	0	0	0	0

NOTES	209 38						0	o	0	0	51	0	51	0	-1	0
NOTES			THR (52				-1	o	0	0	49	0	49	0	-1	0
NOTES			THR(50				-1	o	0	0	52	0	52	0	0	0
NOTES	257 53			_			0	o	41	0	0	0	0	9	0	0
NOTES	2 73 40						-1	0	38	٥	0	0	33	0	-1	O
NOTES	289 33 4						0)	0	0	0	0	40	38	35	38
NOTES	305 40						0	c	45	0	0	0	47	0	0	0
NOTES	321 49						37	39	41	0	0	0	42	0	0	0
NOTES	337 43						0	0	41	o	0	0	0	0	0	0
NOTES	353 39						0	0	38	0	0	0	0	0	0	0
NOTES	369 37			UGH 0			0	J	36	0	0	0	0	0	0	၁
NOTES	385 35						0	o	33	0	o	0	0	0	0	0
NOTES	401 35						0	0	38	0	0	o	42	0	0	0
NOTES	417 44 4						0	0	0	0	0	0	49	0	-1	0
NOTES			THR (49				0	0	-1	0	44	0	42	0	0	0
VOTES	449 41												0			
NOTES		; -	THR (JUGH	4	480							30			
NOTES		. •	THRO	UGH	۱ ،	496							32			

NOTES	497 0 C	_			-1	0	0	0	42	Э	37	0	0	٥
NOTES	513 -1 0		_		0	0	-1	0	33	О	38	0	0	0
NOTES	529 31 0				0	0	33	0	0	0	-1	0	0	0
NOTES	545 36 0				0	o	34	0	0	0	-1	0	o	0
NOTES	561 33 C				0)	32	o	0	0	-1	0	0	0
NOTES	577 31 0			_	55	54	55	J	0	٥	50	0	52	0
VOTES	593 47 C				0	0	54	o	0	٥	52	0	0	0
NOTES			UGH 0 47		0	0	45	42	45	47	50	0	0	0
NOTES	625 0 0		UGH 0 40		-1	0	38	0	0	c	0	0	0	0
NOTES	641 36 C			-	0	0	35	0	0	0	0	0	0	0
NOTES	657 33 0				0	0	0	0	0	3	43	0	0	0
NOTES			UGH O O		0	G	40	0	0	0	0	G	0	0
NOTES	689 38 C					0	42	0	0	0	38	0	0	0
NOTES	705 37 C				0	0	36	0	0	0	0	0	0	0
NOTES	721 35 0				0	0	0	0	0	0	0	0	0	0
NOTES	737 41 0				0	0	43	0	0	٥	-1	0	0	0
VOTES	753 43 0				0	0	48	0	0	0	-1	o	0	0
NOTES			O G		0	0	o	ა	0	٥	0	0	0	0

NOTES	785	THROUG	н 800										
	O C		0 0	0	0	41	0	43	٥	46	0	43	0
NOTES	801 41 C	THROUG 0 0	H 816 0 0		0	37	0	0	Э	0	0	0	0
NOTES		THROUGH 0 0		0	0	34	0	0	0	0	0	0	0
NOTES		THROUG 0 0		-1	0	31	О	o	Э	26	3	-1	0
NOTES		THROUG 0 0		0	o	0	0	0	Э	33	31	28	31
VOTES		THROUG 0 0		0	0	38	0	0	0	40	0	0	0
VOTES	881 41 0	THROUG 0 0	H 896 53 55	57	58	60	0	56	0	54	0	49	0
NOTES		THROUG 42 0		35	0	-1	Э	0	Э	၁	0	0	O
HOTES		THROUG 0 0		29	26	24	၁	0	o	-1	၁	0	o
NOTES		THROUG 0 0	H 944 49 51		51	49	0	0	o	-1	0	0	0
NOTES	945 0 0	THROUGH 0 0	H 960 23 25	28	25	23	0	0	Э	-1	0	0	0
NOTES	961 0 0	THROUGH 0 0	H 976 30 32	35	32	30	0	0	0	-1	0	0	0
NOTES		THROUGH 0 0			47	45	0	0	Э	-1	c	0	0
NOTES		THROUG 0 0		27	24	22	0	0	c	-1	0	0	0
NOTES		THRCUG 44 42			0	-1	o	o	Э	36	o	37	0
NOTES		THR GUG			0	43	0	0	c	0	o	-1	0
NOTES		THROUGH 0 0		-1	0	38	0	0	o	43	0	-1	0
NOTES	1057 43 33	THROUGH 0 0		0	0	0	o	0	o	36	38	41	38

NOTES 1073 THROUGH 1088 0 0 31 0 0 29 36 C O O 32 O 0 0 0 NOTES 1089 THROUGH 1104 0 0 0 27 0 0 0 0 0 0 0 25 0 0 NOTES 1105 THROUGH 1120 0 0 26 0 0 0 -1 24 C O O -1 O NOTES 1121 THROUGH 1136 0 9 27 0 0 0 -1 29 0 0 0 -1 0 NOTES 1137 THROUGH 1152 26 0 0 0 -1 0 0 0 25) 0 3 -1 ٥ 0 0 NOTES 1153 THROUGH 1168 0 0 0 0 0) 24 0 0 0 -1 0 0 0 0 0 NOTES 1169 THROUGH 1184 C C O O O0 0 55 0 0 0 0 0 0 0 NOTES 1185 THROUGH 1185 -99

THE FOLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERATIONS LONGER THAN FOUR NOTES-IN-LENGTH

SYM DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 33 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO NO	TES	TEST	LENGTH
1 2 3 4 5 6 7	1 TO 9 1 TO 9 5 TO 13 5 TO 13 29 TO 31 29 TO 31 29 TO 31	509 T .435 T 507 T (SYM) 418 T (SYM) 490 T	0 445 0 517 0 443 0 515 0 420 0 492	24 24 24 24 24 24 24	3 3 3 3 3
8 9 10 11 12 13	30 TO 32 30 TO 32 30 TO 32 30 TO 32 30 TO 32 30 TO 32	(SYM) 417 T (SYM) 489 T (SYM) 918 T (SYM) 934 T (SYM) 950 T (SYM) 966 T	0 419 0 491 0 920 0 936 0 952 0 968	24 24 24 24 24 24	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
14 15 16 17 18 19 20	30 TO 32 30 TO 32 30 TO 32 30 TO 32 31 TO 33 31 TO 33 32 TO 37	(SYM) 998 T (SYM) 1009 T (SYM) 1070 T 413 T 485 T 409 T	0 984 0 1300 0 1011 0 1072 0 418 0 490 0 417	24 24 24 24 24 24 24	3 3 3 3 3 3
21 22 23 24 25 26 27	32 TO 37 33 TO 41 33 TO 41 37 TO 45 37 TO 45 37 TO 45	(SYM) 405 T (SYM) 477 T (SYM) 161 T (SYM) 401 T (SYM) 473 T	0 489 0 413 0 485 0 169 0 409 0 481	24 24 24 24 24 24 24	3 3 3 3 3
28 29 30 31 32 33	41 TO 49 41 TO 49 41 TO 49 101 TO 103 101 TO 103 102 TO 104	157 T 309 T 869 T (SYM) 325 T (SYM) 581 T (SYM) 582 T	0 165 0 317 0 877 0 327 0 583 0 584	24 24 24 24 24 24	
34 35 36 37 38 39 40	149 TO 151 150 TO 152 150 TO 152 150 TO 152 151 TO 153 152 TO 157 153 TO 161	(SYM) 302 T (SYM) 617 T (SYM) 862 T 613 T 609 T	0 620 0 304 0 619 0 864 0 618 0 617	24 24 24 24 24 24 24	3 3 3 3 3 3 3 3 3 3 3
41 42	157 TO 165 161 TO 169	(SYM) 601 T	0 609 0 1085	24 24	3 3

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PATTERN	NCTES	RELATED TO	O NOTE	E S	TEST L	ENGTH
#*** FOR #*** FOR	301 TO 303 302 TO 304	-	149 TO 150 TO	151 152	ABOVE **** ABOVE ****	
**** FOR	302 TO 304 303 TO 305	-	150 TO	153	ABOVE ***	
**** FOR	304 TO 309		152 TO	157	ABOVE ***	
**** FOR	305 TO 313	-	153 TO	161	ABOVE ***	
**** FOR	309 TO 317	=	157 TO	165	ABOVE ****	
**** FOR	325 TO 327	• SEE	101 TO	103	ABOVE ***	
43	393 TO 405		1081 TO	1089	24	3
**** FOR	401 TO 409		161 TO	169		_
44	405 TO 413		1073 TO	1081	24	3 3 3 3 3 3 3 3
45	409 TO 417		1072 TO	1077	24	3
46 47	413 TO 418		919 TO	921	24	3
47 48	413 TO 418 413 TO 418		935 TO 951 TO	937 953	24 24	3
4 9	413 TO 418		967 TO	969	24	3
50	413 TO 418		983 TO	985	24	ے 2
51	413 TO 418		999 TO	1001	24	3
52	413 TO 418		1071 TO	1073	24	3
**** FOR	417 TO 419		30 TO		ABOVE ****	
53	418 TO 420		917 TO	919	24	3
54	418 TO 420	(SYM)	933 TO	935	24	3
55	418 TO 420		949 TO	951	24	3
56	418 TO 420		965 TO	967	24	3
57	418 TO 420		981 TO	983	24	3
58	418 TO 420		997 TO	999	24	3
59 40	418 TO 420		1069 TO	1071	24	3
60 61	435 TO 443 437 TO 445		1045 TO 1041 TO	1053 1049	24 24	3 3 3 3 3 3
**** FOR	473 TO 481		161 TO		ABOVE ***	2
**** FOR	477 TO 485		405 TD		ABOVE ***	
**** FOR	481 TO 489		_		ABOVE ****	
**** FOR	485 TO 490	•	413 TO		ABOVE ***	
**** FOR	489 TO 491		30 TO	32	ABOVE ***	
**** FOR	490 TO 492	• SEE	418 TO	420	ABOVE ***	
**** FOR	507 TO 515	• SEE	435 TO	443	ABOVE ***	
**** FOR	509 TO 517	•	437 TO		ABOVE ****	
**** FOR	581 TO 583		101 TO	103	ABOVE ***	
**** FOR	582 TO 584		102 TO	104		
**** FOR	601 TO 609		41 TO	49	ABOVE ****	_
62	605 TO 613		865 TO	873	24	3
63 64	609 TO 617 613 TO 618		864 TO 863 TO	869 865	24 24	3 3
**** FOR	617 70 619		150 TO		ABOVE ***	3
65	618 TO 620		861 TO	863	24	3
**** FOR	861 TO 863		149 TO	151	ABOVE ***	_
**** FOR	862 TO 864	•	150 TD		ABOVE ***	
**** FOR	863 TO 865		151 TO		ABOVE ****	
**** FOR	864 TO 869		152 TO	157	ABOVE ***	
**** FOR	865 TO 873		153 TO	161	ABCVE ***	
**** FOR	869 TO 877		157 TO	165		
**** FOR	873 TO 881	• SEE	161 TO	169	ABOVE ****	

PATTE	ERN	ħ	NOTE	ES	RELATED TO	N	IOTES		TE:	ST	LENG1
					400		=-				
****	FOR	917	TO	919		29	TO		ABOVE	**	
****	FOR	918	TO	920		30	TO	32	ABOVE	**	
***	FOR	919	TO	921		31	TO	33	ABOVE	**	
****	FOR	933	TO	935		29	TO	31	ABOVE	**	
****	FOR	934	TO	936		30	TO	32	ABOVE	**	
****	FOR	935	TO	937		31	TO	33	ABOVE	**	
****		949	TO	951		29	TO	31	ABOVE		
****	FOR	950	TO	952		30	TO	32	ABOVE	**	
****		951	TO	953		31	TO	33	ABOVE	**	
****	FOR	965	TO	967		29	TO	31	ABOVE	**	
***	FOR	966	TO	968		30	TO	32	ABOVE	**	
***		967	TO	969		31	TO	33	ABOVE	**	
****	FOR	981	TO	983		29	TO	31	ABOVE	**	
***	FOR	982	TO	984		30	TO	32	ABOVE	**	
****	FOR	983	TO	985		31	TO	33	ABOVE	**	
****	FOR	997	TO	999		29	TO	31	ABOVE	**	
	FOR	598	TO	1000		30	TO	32	ABOVE	**	
****	FOR	999	TO	1001		31	TO	33	ABOVE	**	
****		1009	TO	1011		30	TO	32		**	
***	FOR	1010	TO	1012		418		420	ABOVE	**	
****	FOR	1041	TO	1049		1	TO	9	ABOVE	**	
****		1045	TO	1053		5	TO	13	ABOVE	**	
****	FOR	1069	TO	1071	SEE	29	TO	31	ABOVE	**	
****	FOR	1070	TO	1072		30	TO	32	ABOVE	**	
****	FOR	1071	TO	1073	SEE	31	TO	33	ABOVE	**	
****		1072	TO	1077		32	TO	37	ABOVE	**	**
****	FOR	1073	TO	1081		33	TO	41	ABOVE	**	**
* ***	FOR	1077	TO	1085	SEE	37	TO	45	ABOVE	**	**

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 324 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST L	.ENGTH
66 47	1 TO 13 1 TO 13		435 TO 445		4
67 68	1 TO 13 29 TO 32	(SYM)	507 TO 517 417 TO 420		4 4
6 9	29 TO 32	(SYM)	489 TD 492		4
70	29 TO 32	(SYM)	1009 TO 1012		4
71	30 TO 33		413 TO 419		4
72	30 TO 33		485 TO 491		4
7 3	31 TO 37		409 TO 418		4
74	31 TO 37		481 TO 490		4
75	32 TO 41		405 TO 417		4
76	32 TO 41	/ CVM	477 TO 489		4
77 70	33 TO 45	(SYM)	401 TO 413		4
78 79	33 TO 45 37 TO 49	(SYM) (SYM)	473 TO 485 157 TO 169		4
80	37 TO 49	(SYM)	869 TO 881		4 4
81	149 TO 152	(SYM)	617 TO 620		4
82	150 TO 153	(0	613 TO 619		4
83	151 TO 157		609 TO 618		4
84	152 TO 161		605 TO 617	24	4
85	153 TO 165	(SYM)	601 TO 613		4
**** FOR	301 TO 304		149 TO 152		K
**** FOR	302 TO 305		150 TO 153		
**** FOR	303 TO 309		151 TO 157		
**** FOR	304 TO 313	=	152 TO 161	ABOVE ****	
**** FOR 86	305 TO 317	, SEE	153 TO 165		
87	393 TO 409 401 TO 413	(SYM)	1077 TO 1089 1073 TO 1085		4 4
88	405 TO 417	(314)	1072 TO 1081	24 24	4
89	409 TO 418		1071 TO 1077		4
90	413 TO 419		918 TO 921	24	4
91	413 TO 419		934 TO 937		4
92	413 TO 419		950 TO 953	24	4
93	413 TO 419		966 TO 969		4
94	413 TO 419		982 TO 985		4
95	413 TO 419		998 TO 1001	24	4
96 67	413 TO 419	4.63444	1070 TO 1073		4
97 98	417 TO 420 417 TO 420	(SYM)	917 TO 920		4
99	417 TO 420 417 TO 420	(SYM) (SYM)	933 TO 936 949 TO 952		4 4
100	417 TO 420	(SYM)	965 TO 968		4
101	417 TO 420	(SYM)	981 TO 984		4
102	417 TO 420	(SYM)	997 TO 1000		4
103	417 TO 420	(SYM)	1069 TO 1072		4
104	435 TO 445		1041 TO 1053		4

PATTE	RN	ħ	NOT	ES	RELATED	TO	NOTE	ES	TES	ST I	LENGT
				405			-		40045		٠.
****		473	TO	485				413		***	
****	FOR	477 481	TO TO	489 ₁				417 418	ABOVE	***	
* * * *			-					419		***	
	FOR FOR	485 489	TO TO	491 ₁				420	ABOVE	***	
****		507	TO	517		E 435		445	ABOVE		
105		601	TO	613	(SYM)			87 7	24		4
108		605	TO	617	(3)11	864		873	24		4
107		609	TO	618		863		869	24		4
108		613	TO	619		862		865	24		4
109		617	TO	620	(SYM)			864	24		4
****		861	TO	864				152	ABOVE	***	•
****		862	TO	865				153	ABOVE	***	
	FOR	863	TO	869		E 151		157	ABOVE	***	¢
****	FOR	864	TO	873				161		***	k
****	FOR	865	TO	877		E 153	TO	165	ABOVE	***	k
****	FOR	917	TO	920	SE	EE 29	TO	32	ABOVE	***	ķ
****	FOR	918	TO	921	SE	E 30	TO	33	ABOVE	***	ķ
****	FOR	933	TO	936	SE	EE 29	TO	32	ABOVE	***	ķ
* * * *	FOR	934	TO	937	SE	E 30	TO	33	ABOVE	***	ķ
* ***	FOR	949	TO	952	SE	E 29	TO	32	ABOVE	***	ķ
****	FOR	950	TO	953	SE	EE 30	TO	33	ABOVE	***	ķ
* ***	FOR	965	TO	968		EE 29	TO	32	ABOVE	***	ķ
****	FOR	966	TO	969			TO	33	ABOVE	***	*
****	FOR	981	TO	984		E 29		32	ABOVE	***	ķ
****	FOR	982	תד	985		E 30		33	ABOVE	***	ķ
****	FOR	997	TO	1000				32	ABOVE	***	
* ***	FOR	998	TO	1001				33	ABOVE	***	
****	FOR	1009	TO	1012				420	ABOVE	***	
* * * *	FOR	1041	TO	1053				13	ABOVE	***	
****	_	1069	TO	1072,				32	ABOVE	***	
****	FOR	1070	TO	1073				33		***	-
****	FOR	1071	TO	1077				37	ABOVE	***	
****	FOR	1072	TO	1081				41	ABOVE	***	-
****	FOR	1073	TO	1085	SE	EE 33	TO	45	ABOVE	***	F

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 379 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	O NOTES	TEST LE	NGTH
110	29 TO 33		413 TO 420	24	5
111	29 TO 33 30 TO 37		485 TO 492 409 TO 419	24 24	5
112 113	30 TO 37 30 TO 37		491 TO 491	24 24	5 5
114	31 TO 41		405 TO 418	24	5
115	31 TO 41		477 TO 490	24	5 5 5
116	32 TO 45		401 TO 417	24	5
117	32 TO 45		473 TO 489	24	5
118	149 TO 153		613 TO 620	24	5
119	150 TO 157		609 TO 619	24	5 5
120	151 TO 161		605 TO 618	24	5
121	152 TO 165		601 TO 617	24	5
**** FOR	301 TO 305		149 TO 153	ABOVE ****	
**** FOR	302 TO 309		150 TO 157		
**** FOR	303 TO 313		151 TO 161	ABOVE ***	
**** FOR	304 TO 317	• SEE	152 TO 165	ABOVE ****	_
122	393 TO 413		1073 TO 1089	24	5
123	401 TO 417 405 TO 418		1072 TO 1085 1071 TO 1081	24 24	5
124 125	409 TO 419		1071 TO 1081	24 24	5 5
126	413 TO 420		917 TO 921	24	
127	413 TO 420		933 TO 937	24	5 5
128	413 TO 420		949 TO 953	24	5
129	413 TO 420		965 TD 969	24	5
130	413 TO 420		981 TO 985	24	5
131	413 TO 420		997 TO 1301	24	
132	413 TO 420		1069 TO 1073	24	5 5
**** FOR	473 TO 489		401 TO 417	ABOVE ****	
**** FOR	477 TO 490			ABOVE ***	
**** FOR	481 TO 491			ABOVE ***	
**** FOR	485 TO 492	• SEE	413 TO 420	ABOVE ***	_
133	601 TO 617		864 TO 877	24	5
134	605 TO 618		863 TO 873	24	5
135	609 TO 619		862 TO 869	24	5
136 **** FOR	613 TO 620 861 TO 865	SEE	861 TO 865 149 TO 153	24	5
**** FOR	861 TO 865 862 TO 869		149 TO 153 150 TO 157		
**** FOR	863 TO 873		151 TO 161		
**** FOR	864 TO 877		152 TO 165		
**** FOR	917 TO 921	•	29 TO 33		
**** FOR	933 TO 937		29 TO 33	ABOVE ****	
**** FOR	949 TO 953		29 TO 33	ABOVE ****	
**** FOR	965 TO 969		29 TO 33	ABOVE ****	
**** FOR	981 TO 985		29 TO 33	ABOVE ****	

PATTE	ERN	P	NOTE	E \$ 1	RELATED TO	NOT	ES	TES	ST LENGTH
****	FOR	997	TO	1001,	SEE	29 TO	33	ABOVE	****
****	FOR	1069	TO	1073,	SEE	29 TO	33	ABOVE	***
***	FOR	1070	TO	1077,	SEE	30 TO	37	ABOVE	***
****	FOR	1071	TO	1081,	SEE	31 TO	41	ABOVE	****
* * * *	FOR	1072	TO	1085,	SEE	32 TO	45	ABOVE	****

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -- RHYTHM RETROGRADE W. EXACT RETROGRADE WAS BEGUN AT 433 SECONDS INTO EXECUTION.

PATTERN	NOT	ES	RELATED TO) N	IOTE	ES	TES	T	LENGTH
137	29 TO	37		409	TO	420	24		6
138	29 TO	37		481	TO	492	24	•	6
139	30 TO	41		405	TO	419	24	•	6
140	30 TO	41		477	TO	491	24	•	6
141	31 TO	45		401	TO	418	24	•	6
142	31 TO	45		473	TO	490	24	•	6
143	149 TO	157		609	TO	620	24	•	6
144	150 TO	161		605	TO	619	24	•	6
145	151 TO	165		601	TO	618	24	•	6
**** FOR	301 TO	309,	SEE	149	TO	157	ABOVE	***	*
**** FOR	302 TO	313,	SEE	150	TO	161	ABOVE	***	*
**** FOR	303 TO	•	SEE	151	TO	165	ABOVE	***	*
146	39 3 TO	417		1372	TO	1089	24	•	6
147	401 TO	418		1071	TO	1085	24	•	6
148	405 TO	419		1070	TO	1081	24	•	6
149	409 TO	420		1069	TO	1077	24	•	6
**** FOR	473 TO	490,	SEE	401	TO	418	ABOVE	***	*
**** FOR	477 TO	491,	SEE	405	TO	419	ABOVE	***	*
**** FOR	481 TO	492	SEE	409	TO	420	ABOVE	***	*
150	601 TO	618		863	TO	877	24	•	6
151	605 TO	619		862	TO	873	24	•	6
152	6 09 TO	620		861	TO	869	24	•	6
**** FOR	861 TO	869,		149	TO	157	ABOVE	***	*
**** FOR	862 TO			150	TO	161		***	
**** FOR	863 TO	877,		151	TO	165		***	
	1069 TO	1077		29	TO	37		***	*
**** FOR	1070 TO	•		30	TO	41		***	*
**** FOR	1071 TO	1085	SEE	31	TO	45	ABOVE	***	*

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 489 SECONDS INTO EXECUTION.

PATTERN	NOTES	CETALES	TO NOTES	TEST	LENGTH
153	29 TO 41		405 TO 420	24	7
154	29 TO 41		477 TO 492	24	7
155	30 TO 45		401 TO 419	24	7 '
156	30 TO 45		473 TO 491	24	7
157	149 TO 161		605 TO 620	24	7
158	150 TO 165		601 TO 619	24	7
159	393 TO 418		1071 TO 1089	24	7
160	401 TO 419		1070 TO 1085	24	7
161	405 TO 420		1069 TO 1081	24	7
162	601 TO 619		862 TD 877	24	7
163	605 TO 620		861 TO 873	24	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 505 SECONDS INTO EXECUTION.

PATTERN	NCTES	RELATED TO NOT	ES TEST	LENGTH
164	29 TO 45	401 TO	420 24	8
165	29 TO 45	473 TO	492 24	8
166	149 TO 165	601 TO	620 24	8
167	393 TO 419	1070 TO	1389 24	8
168	401 TO 420	1069 TO	1085 24	8
169	601 TO 620	861 TO	877 24	8

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 522 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
170	393 TO 42) 17	069 TO 108 9	24	9

SEARCH FOR PATTERNS OF 10 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RETROGRADE WAS BEGUN AT 538 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 170 PATTERNS LOCATED.

*** TYPE II LISTING ***

746

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE RHYTHM RETROGRADE W.EXACT RETROGRADE

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
JRIGINAL PATTERN	393 TO 420	2	9
SUBPATTERN	413 TO 420	8	5
SLEPATTERN	417 TO 420	8	4
SUBPATTERN	413 TO 419	8	4
SUBPATTERN	418 TO 420	8	3
SUBPATTERN	413 TO 418	8	3

**** TEST 24 COMPLETED AT 581 SECONDS INTO EXECUTION ****

******* MUSIC MELODIC PATTERN ANALYSIS ********

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

TEST REQUESTED 26
UNITS OF DATA PER CARD 16

CCMPUTER REFERENCE NUMBER ASSIGNMENT

10TES	36						-1	0	38	0	0	Э	43	0	-1	0	
NOTES	43					32 0	0	0	0	o	0	3	36	38	41	38	
NOTES	35 36						0	0	31	0	o	0	29	0	0	0	
NOTES			THR C				0	0	30	0	0	0	-1	0	0	0	
NOTES	6! 33						0	0	31	0	0	0	-1	0	0	0	
NOTES	8: 30	_	_				0	0	29	0	0	Э	-1	0	0	0	
NOTES	9 [.] 28						52	51	52	0	0	0	52	0	0	0	
NOTES	113						0	0	49	0	0	3	47	0	-1	0	
NOTES	129	9		UGH	ı	144					_			0		0	
10TES		5	THRO	UGH	1	160				0			53		0		
10TES	16	1	THRO	UGH	l	176						_		_			
NOTES		7	THRO	UGH	1	0 192	_	_		0			_			0	
NOTES	45 193					0 208	0	0	43	0	0	0	0	0	0	0	
	41	0	0	0	0	9	0	0	40	0	0	0	0	0	Ð	0	

NOTES	209 38 (224 1 0	0	0	0	0	51	o	51	0	-1	o
NOTES				240 2 0	-1	0	0	0	49	0	49	0	-1	0
NOTES				256 0 0	-1	0	0	0	52	0	52	0	0	0
NOTES	25 7 53 (0	0	41	0	0	0	0	0	0	0
NOTES	273 4C (-1	0	38	0	0	2	33	0	-1	0
NOTES	289 33 43				0	0	0	Э	0	0	40	38	35	38
NOTES	305 40 (320 4 0	0	0	45	0	0	0	47	0	0	0
107ES	321 49 T				37	39	41	0	0	0	42	0	0	0
NOTES	337 43 (0	0	41	0	0	Э	0	0	0	0
NOTES	353 39 (_		368 0 0	0	0	38	0	0	0	0	0	0	0
NOTES	369 37				0	0	36	0	0	c	0	0	0	0
NOTES	385 35 (0	0	33	0	0	0	0	0	0	0
NOTES	401 35 (0	0	38	0	0	Э	42	0	0	0
NOTES	417 44 4		_		0	0	0	0	0	o	49	0	-1	0
NOTES				44 8 4 0	0	0	-1	0	44	0	42	0	0	C
NOTES	449 41 (0	44	0	0	c	0	0	0	0
NOTES	465 39 (0	0	28	0	0	c	30	0	0	0
NOTES	481 31				0	0	37	40	37	35	32	0	0	0

10TES		THR(512 2 0	-1	0	0	0	42)	37	0	0	0
.NOTES	513 -1		_	0	0	-1	0	33	0	38	0	0	0
NOTES	529 31			0	0	33	၁	0	0	-1	0	0	0
VOTES	545 36		 	0	3	34	0	0	c	-1	0	0	0
NOTES	561 33			0	0	32	0	0	Э	-1	0	0	0
NOTES	577 31			55	54	55	0	0	Э	50	0	52	0
NOTES	593 47			0	0	54	0	0	Э	52	0	đ	0
NOTES	609 51				0	45	42	45	47	50	0	Ò	0
IOTES			640 0 0	-1	0	38	0	0	0	0	0	0	0
NOTES	641 36			0	0	35	0	0	С	0	0	0	0
NOTES	657 33			0	0	0	0	0	0	43	0	0	0
NOTES	673 41			0	0	40	0	0	0	0	0	0	0
IOTES	689 38			0	0	42	0	0	0	38	0	0	0
VOTES	705 37		720 0 0	0	0	36	0	0	0	0	0	0	0
NOTES	721 35			0	0	0	0	0	Э	0	0	0	0
NOTES	737 41			0	0	43	0	0	Э	-1	0	0	0
NOTES	753 43			0	0	48	0	0	0	-1	0	0	0
NOTES	769 48 3		784 0 0	0	0	0	0	0	၁	0	0	0	0

NOTES		THROUGH 0 0		0	0	41	0	43	0	46	0	43	0
NOTES	801 41 C	THROUGH 0 0	816 0 0	0	0	37	0	0	Э	0	0	0	0
NOTES	817 36 0	THROUGH 0 0		0	0	34	0	0	3	0	0	0	0
NOTES		THROUGH 0 0		-1	ა	31	0	0)	26	0	-1	0
NOTES		THROUGH 0 0		0	0	0	0	0	Э	33	31	28	31
NCTES		THROUGH 0 0		0	0	38	0	0	Э	40	0	0	0
NOTES	_	THROUGH 0 0	-	57	58	60	0	56	0	54	0	49	0
NOTES		THROUGH 0 42 0		35	0	-1	0	0	Э	0	0	0	0
NOTES		THRCUGH 0 0		29	26	24	5	o	Э	-1	0	0	0
NOTES		THROUGH 0 0	944 49 51	54	51	49	0	0	3	-1	o	0	0
NOTES	945 0 0	THROUGH 0 0	960 23 25	28	25	23	0	0	c	-1	0	0	0
NOTES		THRCUGH) 0 0		35	32	30	0	0	0	-1	0	0	0
VOTES	577 0 0	THRCUGH 0 0	992 45 47	50	47	45	0	0	Э	-1	0	0	0
NOTES		THROUGH 0 0		27	24	22	0	0	o	-1	o	0	0
4OTES		THROUGH 7 44 42		0	o	-1	0	0	Э	36	ъ	37	0
NOTES		THROUGH 0 0		-1	o	43	0	0	3	0	0	-1	0
NOTES		THROUGH 0 0		-1	0	38	Э	0	0	43	o	-1	0
4 OTES		THROUGH 0 0		0	0	0	o	0	0	36	38	41	38

NOTES 1073 THROUGH 1088 36 0 0 0 32 0 0 0 31 0 0 0 29 0 0 NOTES 1089 THROUGH 1104 0 0 25 0 0 0 0 27 0 0 0 0 0 0 0 0 NOTES 1105 THROUGH 1120 24 0 0 0 -1 0 0 0 26 0 0 0 -1 ٥ NOTES 1121 THROUGH 1136 0 0 27 0 0 0 -1 29 0 0 0 -1 0 0 0 C NOTES 1137 THROUGH 1152 26 C O O -1 O O O 25 0 0 0 -1 **NOTES 1153 THROUGH 1168** 24 0 0 0 -1 0 0 0 0 0 0) 0 2 0 0 NOTES 1169 THROUGH 1184 0 0 0 0 0 0 0 0 55 0 0 0 0 0 0 10TES 1185 THROUGH 1185 -99

THE FCLLOWING TYPES OF PATTERN HAVE BEEN DELETED FROM THE LISTINGS WHICH FOLLOW --

PATTERNS WHICH ARE REITERALIONS LONGER THAN FOUR NOTES-IN-LENGTH

SYM DESIGNATES NONRETROGRADABLE (I.E., SYMMETRICAL) RHYTHM.

*** TYPE I LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTOM VOICE

SEARCH FOR PATTERNS OF 3 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 34 SECONDS INTO EXECUTION.

PATTERN	NOTES	•	RELATED T	0 1	NOTE	S	TEST	LENGTH
1 2	29 TO	31	(SYM)	618	TO	620	26	3
3	30 TO	32	(SYM)	150	TO	152	26 26	3
3 4	30 TO 30 TO	32 32	(SYM) (SYM)	302 617	TO TO	304 619	26 26	3 3 3
5	30 TO	32	(SYM)	862	TO	864	26	3
6	31 TO	33	(314)	613	to	618	26	3
7	32 TO	37		609	TO	617	26	3 3 3
8	33 TO	41	(SYM)	605	TO	613	26	3
9	37 TO	45	(SYM)	601	TO	609	26	
10	41 TO	49	, , , , , ,	1077	TO	1085	26	3 3 3 3
11	73 TO	89	(SYM)	553	TO	569	26	3
12	7 3 TO	89	(SYM)	561	TO	577	26	3
13	73 TO	89		701	TO	713	26	
14	73 TO	89	(SYM)	1129	TO	1145	26	3 3 3
15	7 3 TO	89	(MYZ)	1137	TO	1153	26	3
**** FOR	81 TO	97,	SEE	73	TO	89	ABOVE ***	t a k
16	101 TO	103	(SYM)	582	TO	584	26	3
17	102 TO	104	(SYM)	325	TO	327	26	3
18	102 TO	104	(SYM)	581	TO	583	26	3 3 3
19	121 TO	129		437	TO	445	26	
20	121 TO	129		509	TO	517	26	3
21	125 70	133		435	TO	443	26	3 3 3 3
22	125 TO	133	4 0	507	TO	515	26	3
23	149 TO	151	(SYM)	418	TO	420	26	3
24	149 TO	151	(SYM)	490	TO	492	26	3
25	149 TO	151	(SYM)	1010	TO	1012	26	3
26	150 TO	152	(SYM)	417	TO	419	26	3 3 3
27	150 TO	152	(SYM)	489	TO	491	26 26	3
28 30	150 TO 150 TO	152	(SYM)	918	TO TO	920	26	3
2 9 30	150 TO	152 152	(SYM) (SYM)	934 950	TO	936 952	26 26	3 3
31	150 TO	152	(SYM)	966		968	26 26	
32	150 TO	152	(SYM)	982	TO	984	26 26	3 3
33	150 TO	152	(SYM)	998	TO	1000	26	3
34	150 TO	152	(SYM)	1009	TO	1011	26	
35	150 TO	152	(SYM)	1070	TO	1072	26	3
36	151 10	153	, 51117	413	TO	418	26	3 3 3 3 3
37	151 TO	153		485	TO	490	26	3
38	152 TO	157		409	TO	417	26	3
39	152 TO	157		481	TO	489	26	3
40	153 TO	161	(SYM)	405	TO	413	26	3
41	153 TO	161	(SYM)	477	TO	485	26	3

P ATTERN	NOTES	RELAT	ED TO	NOTES	TEST	LENGTH
42 43		165 (S)			26 26	3
44		165 (S)	-		26 26	3 3 3 3
45		169	309			3
46		169	869			3
47			(M) 377			
48			(M) 673			3
49		201 (S'	YM) 809			3
50	193 TO	209	545	TO 561	26	3 3 3 3 3 3 3
51		209	669		26	3
52		209	1121			3
53	-	227	237			3
54		229	235			_
**** FOR		243,	SEE 219			
**** FOR		245.	SEE 221			
55 **** FOR		277 281	443		26	3
**** FOR **** FOR		281, 285,	SEE 121 SEE 125		ABOVE ***	
**** FOR		303 ,	SEE 149			
**** FOR		304•	SEE 150			
**** FOR		305 ,	SEE 151			
**** FOR		309,	SEE 152			
**** FOR		313,	SEE 153			
**** FOR		317,	SEE 157			
**** FOR		327,	SEE 101			
56		328 (5)			• -	3
**** FOR	345 TO	361,	SEE 185	TO 201	ABOVE ***	*
57	353 TO :	369 (S)	/M) 369	TO 385	26	3
**** FOR		377,	SEE 353			
**** FOR		385,	SEE 353	• - •	ABOVE ***	
58				TO 649		. 3
**** FOR		409,	SEE 161		ABOVE ***	
59		413 (S)	-			3
60		417 418	864 863			3 3
61 **** FOR		419,	SEE 30		ABOVE ***	
62		420 (S				3
63		443	837			3
64		445	833			3
65		449	825			3
**** FOR	473 TO	481,	SEE 161		ABOVE ***	*
**** FOR	477 TO	485,	SEE 405	TO 413	ABOVE ***	*
**** FOR	481 TO	489•	SEE 409	TO 417	ABOVE ***	*
**** FOR		490,	SEE 413		ABOVE ***	
**** FOR		491,	SEE 30		ABOVE ***	
**** FOR		492,	SEE 418			
**** FOR		515 ,	SEE 435			
**** FOR		517 ,	SEE 437			
**** FOR **** FGR		569 , 577.	SEE 73		ABOVE ***	
**** FOR		577 , 583 ,	SEE 73 SEE 101			
TTTT FUK	701 10	J03 4	SEE INT	10 103	MOUVE TTT	•

PATTERN	NOTES	RELATED TO	D NOT	ES	TEST	LENGTH
**** FOR	582 TO 584	see	102 TO	104	ABOVE *	***
**** FOR	601 TO 609		41 TO	49	ABOVE *	***
66	605 TO 613	(SYM)	1073 TO	1081	26	3
67	609 TO 617		1072 TO	1077	26	3 3 3
68	613 TO 618		919 TO	921	26	3
69	613 TO 618	3	935 TO	937	26	3
70	613 TO 618	3	951 TO	953	26	
71	613 TO 618	3	967 TO	969	26	3
72	613 TO 618	3	983 TD	985	26	3 3 3
73	613 TO 618	3	999 TO	1001	26	3
74	613 TO 618	3	1071 TO	1073	26	3
**** FOR	617 TO 619	SEE	150 TO	152	ABOVE *	***
75	618 TO 620	(SYM)	917 TO	919	26	3
76	618 TO 620	(SYM)	933 TO	935	26	
77	618 TO 620	(SYM)	949 TO	951	26	3
78	618 TO 620	(SYM)	965 TO	967	26	3 3 3 3
79	618 TO 620	(SYM)	981 TD	983	26	3
80	618 TO 620	(SYM)	997 TO	999	26	3
81	618 TO 620	(SYM)	1069 TD	1071	26	3
**** FCR	633 TO 649	SEE	185 TO	201	ABOVE *	***
**** FOR	641 TO 657	SEE	193 TO	209	ABOVE **	***
**** FOR	673 TO 689	SEE	377 TO	393	ABOVE *	***
**** FOR	705 TO 723		73 TO	89	ABOVE *	***
**** FOR	809 TO 825		377 TO	393	ABOVE *	***
**** FOR	825 TO 837		265 TO	277	ABOVE *	***
**** FOR	833 TO 841	•	121 TO	129		***
**** FOR	837 TO 845		125 TO	133	ABOVE *	***
**** FOR	861 TO 863		149 TO	151	ABOVE *	***
**** FOR	862 TO 864	SEE	150 TD	152	ABOVE *	***
**** FOR	863 TO 865	see	151 TO	153	ABOVE *	***
**** FOR	864 TO 869		152 TO	157	ABOVE *	***
**** FOR	865 TO 873		153 TO	161	ABOVE *	***
**** FOR	869 TO 877	see	157 TO	165	ABOVE *	***
**** FOR	873 TO 881	SEE	161 TO	169	ABOVE *	***
**** FOR	917 TO 919	= =	29 TD	31		***
**** FOR	918 TO 920	SEE	30 TO	32	ABOVE *	***
**** FOR	919 TO 921	SEE	31 TO	33	ABOVE *	***
**** FOR	933 TO 935	SEE	29 TO	31	ABOVE *	***
**** FOR	934 TO 936	SEE	30 TO	32	ABOVE *	***
**** FOR	935 TO 937	see.	31 TO	33	ABOVE *	***
**** FOR	949 TO 951	SEE	29 TO	31	ABOVE *	***
**** FOR	950 TO 952	SEE	30 TO	32	ABOVE *	***
**** FOR	951 TO 953	see	31 TO	33	ABOVE *	***
**** FOR	965 TO 967		29 TO	31	ABOVE *	***
**** FOR	966 TO 968		30 TO	32	ABOVE *	***
**** FOR	967 TO 969	• SEE	31 TO	33	ABOVE *	***
**** FOR	981 TO 983	SEE	29 TO	31	ABOVE *	***
**** FOR	982 TO 984	SEE	30 TO	32		***
**** FOR	983 TO 985	SEE SEE	31 TO	33	ABOVE *	***
**** FOR	997 TO 999	, SEE	29 TO	31	ABOVE *	***
**** FOR	998 TO 1000	SEE	30 TO	32	ABOVE *	***

PATTERN	NOTES	RELATED TO	NOTES	TEST LENGTH
**** FOR	999 TO 1001	, SEE	31 TO 33	ABOVE ****
**** FOR	1009 TO 1011	• SEE	30 TO 32	A80VE ****
**** FOR	1010 TO 1012	• SEE	418 TO 420	ABOVE ****
**** FOR	1069 TO 1071	• SEE	29 TO 31	ABOVE ****
**** FOR	1070 TO 1072	, SEE	30 TO 32	ABOVE ****
**** FOR	1071 TO 1073	• SEE	31 TO 33	ABOVE ****
**** FOR	1072 TO 1077	, SEE	32 TO 37	ABOVE ***
**** FOR	1073 TO 1081	• SEE	33 TO 41	ABOVE ***
**** FOR	1077 TO 1085	• SEE	37 TO 45	ABOVE ****
**** FOR	1129 TO 1145	• SEE	73 TO 89	ABOVE ***

SEARCH FOR PATTERNS OF 4 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 323 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	IEST L	HTQN
82 83 84	29 TO 32 30 TO 33 31 TO 37	(SYM) 617 613 609		26 26 26	4 4 4
85 86 87 88	32 TO 41 33 TO 45 73 TO 97 73 TO 97	605 (SYM) 601 (SYM) 553 (SYM) 1129	TO 613	26 26 26 26	4 4 4
89 90 91	101 TO 104 121 TO 133 121 TO 133	(SYM) 581 435 507	TO 584 TO 445 TO 517	26 26 26	4 4 4
92 93 94 95	149 TO 152 149 TO 152 149 TO 152 150 TO 153	(SYM) 417 (SYM) 489 (SYM) 1009 413	TD 492 TO 1012 TO 419	26 26 26 26	4 4 4
96 97 98 99	150 TO 153 151 TO 157 151 TO 157 152 TO 161	485 439 481 405	TO 418 TO 490 TO 417	26 26 26 26	4 4 4
100 101 102 103	152 TO 161 153 TO 165 153 TO 165 157 TO 169	477 (SYM) 401 (SYM) 473 (SYM) 869	TO 413 TO 485 TO 881	26 26 26 26	4 4 4
104 105 **** FOR 106	185 TO 209 219 TO 229 235 TO 245 265 TO 281	437	TO 245 TO 229 TO 449	26 26 ABOVE **** 26	4
**** FOR **** FOR **** FOR	273 TO 285 301 TO 304 302 TO 305 303 TO 309	SEE 149 SEE 150	TO 152 TO 153	ABOVE **** ABOVE **** ABOVE ****	
**** FOR **** FOR 107 108	304 TO 313 305 TO 317 345 TO 369 401 TO 413		TO 165	ABOVE **** ABOVE **** 26 26	4
109 110 111 112	405 TO 417 409 TO 418 413 TO 419 417 TO 420	864 863	TO 873 TO 869 TO 865	26 26 26 26	4 4 4
113 114 **** FOR **** FOR	435 TO 445 437 TO 449 473 TO 485 477 TO 489	833 825 SEE 401	TO 845 TO 841 TO 413	26 26 ABOVE **** ABOVE ****	4
**** FOR	481 TO 490 485 TO 491	SEE 409	TO 418	ABOVE **** ABOVE ****	

PATTERN	NE	TES	RELATED TO	א כ	OTE	ES	TES	S T	LENGTH
**** FOR	489 T	-	SEE	417		420			
**** FOR **** FOR			SEE SEE	435 73	TO TO	445 97	ABOVE		
**** FOR			SEE	101	TO	104	ABOVE		
115	601 T		(SYM)	1073	TO	1085	26		4
116	605 T		(0),,,,	1072	TO	1081	26		4
117	609 T			1071	TO	1077	26		4
118	613 T			918	TO	921	26		4
119	613 T				TO	937	26		4
120	613 T			950	TO	953	26		4
121	613 T			966	TO	969	26		4
122	613 T	0 619		982	TO	985	26	5	4
123	613 T	0 619		998	TO	1001	26	•	4
124	613 T	0 619		1070	TO	1073	26	5	4
125	617 T	0 620	(SYM)	917	TO	920	26	5	4
126	617 T	0 620	(SYM)	933	TO	936	26	ò	4
127	617 T		(SYM)		TO	952	26		4
128	617 T	_	(SYM)	965	TO	968	26		4
129	617 T		(SYM)	981	TO	984	26		4
130	617 T		(SYM)	997	TO	1000	26		4
131	617 T		(SYM)	1069	TO	1072	26		4
**** FOR	633 T		SEE	185	TO	209	ABOVE		
**** FOR	825 T	•		265	TO	281	ABOVE		
**** FOR	833 T	•		121	TO	133	ABOVE		
**** FOR	861 T	-	SEE	149	TO	152	ABOVE		
**** FOR	862 T	~	SEE	150	TO	153	ABOVE		
**** FOR	863 T	•	SEE	151	TO	157	ABOVE		
**** FOR	864 T	- •		152	TO	161	ABOVE		
	-			153	TO	165	ABOVE		
**** FOR **** FOR	869 T		SEE SEE	15 7 29	T0 T0	32	ABOVE		
**** FOR		•	SEE	30	T 0	33	ABOVE		
**** FOR			SEE	29	TO	32	ABOVE		
**** FOR	934 T	-	SEE		TO	33	ABOVE		
**** FOR	949 T		SEE		TO	32	ABOVE	***	
**** FOR			SEE	30	TO	33	ABOVE	***	
**** FOR	965 T	_	SEE	29	TO	32	ABOVE	***	
**** FOR	966 T	-	SEE		TO	33	ABOVE		
**** FOR	981 T		SEE	29	TO	32	ABOVE		
**** FOR	982 T	· ·	SEE	30	TO	33	ABOVE	***	
**** FOR		•		29	TO	32	ABOVE	***	*
**** FOR		_	SEE	30	TO	33	ABOVE		*
**** FOR			SEE	417	TO	420	ABOVE		
**** FOR	1069 T	0 1072,	SEE	29	TO	32	ABOVE		
**** FOR	1070 T	0 1073,	SEE	30	TO	33	ABOVE .	***	*
**** FOR	1071 T	0 1077,	SEE	31	TO	37	ABOVE	***	*
**** FOR			SEE	32	TO	41	ABOVE	***	*
**** FOR	1073 T	0 1085,	SEE	33	CT	45	ABOVE	***	*

SEARCH FOR PATTERNS OF 5 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 411 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST L	ENGTH
132	29 TO 33		613 TO 620		5
133 134	30 TO 37 31 TO 41		609 TO 619 605 TO 618		5 5
135	32 TO 45		601 TO 617		5 5 5 5 5 5 5 5 5 5
136	149 TO 153		413 TO 420		5
137	149 TO 153		485 TO 492		5
138	150 TO 157		409 TO 419		5
139	150 TO 157		481 TO 491		5
140	151 TO 161		405 TO 418	26	5
141	151 TO 161		477 TO 490	26	5
142	152 TO 165		401 TO 417	26	5
143	152 TO 165		473 TO 489		5
144	265 TO 285		435 TO 449		5
**** FOR	301 TO 305		149 TO 153		
**** FOR	302 TO 309		150 TO 157		
**** FOR	303 TO 313		151 TO 161		
**** FOR	304 TO 317		152 TO 165		
145	401 TO 417		864 TO 877		5
146	405 TO 418		863 TO 873		5
147	409 TO 419		862 TO 869		5
148	413 TO 420		861 TO 865		5 5
149 **** FOR	435 TO 449		825 TO 845		_
	473 TO 489 477 TO 490			ABOVE ****	
**** FOR **** FOR	477 TO 490 481 TO 491	-	405 TO 418 409 TO 419		
**** FOR	485 TO 492		413 TO 420		
150	601 TO 617		1072 TO 1085		5
151	605 TO 618		1071 TO 1081		5
152	609 TO 619		1070 TO 1077		5
153	613 TO 620		917 TO 921	26	5
154	613 TO 620		933 TO 937		5
155	613 TO 620		949 TO 953		5
156	613 TO 620		965 TO 969		5
157	613 TO 620		981 TO 985		5
158	613 TO 620		997 TO 1001	26	5
159	613 TO 620		1069 TO 1073	26	5
**** FOR	825 TO 845	, SEE	265 TO 285	ABOVE ***	k
**** FOR	861 TO 865	•		ABOVE ***	
**** FOR	862 TO 869			ABOVE ***	
**** FOR	863 TO 873		151 TO 161		
**** FOR	864 TO 877			ABOVE ***	
**** FOR	917 TO 921	-		ABOVE ***	
**** FOR	933 TO 937	-		ABOVE ***	
**** FOR	949 TO 953	• SEE	29 TO 33	ABOVE ***	k

PATTE	RN	١	NOTE	S	RELATED TO	NOTES		TEST LENGTH
****	FOR	965	TO	969,	SEE	29 TO	33	ABOVE ****
****	FOR	981	TO	985,	SEE	29 TO	33	ABOVE ****
****	FOR	997	TO	1001,	SEE	29 TO	33	ABDVE ****
****	FOR	1069	TO	1073,	SEE	29 TO	33	'ABOVE ****
****	FOR	1070	TO	1077,	SEE	30 TO	37	ABOVE ****
***	FOR	1071	TO	1081,	SEE	31 TO	41	ABOVE ****
****	FOR	1072	TO	1085,	SEE	32 TO	45	ABOVE ****

SEARCH FOR PATTERNS OF 6 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 499 SECONDS INTO EXECUTION.

PATTERN	N	OTES	RELATED TO	NOT	ES	TEST	LENGTH
160	29 ⁻	TO 37		609 TO	620	26	6
161		TO 41		605 TO	619	26	6
162		TO 45		601 TO	618	26	6
163		TO 157		409 TO	420	26	6
164	149	TO 157		481 TO	492	26	6
165	150	TO 161		405 TO	419	26	6
166	150	TO 161		477 TO	491	26	6
167	151	TO 165		401 TO	418	26	6
168		TO 165		473 TO	490	26	6
**** FOR		TO 309		149 TO	157	ABOVE ***	*
**** FOR		TO 313		150 TO	161	ABOVE ***	
**** FOR	_	TO 317	• SEE	151 TO	165	ABOVE ***	*
169		TO 418		863 TO	877	26	6
170		TO 419		862 TO	873	26	6
171		TO 420		861 TO	869	26	6
**** FOR		TO 490		401 TD	418	ABOYE ***	
**** FOR	•	TO 491	-	405 TO	419	ABOVE ***	
**** FOR		TO 492	• SEE	409 TO	420	ABOVE ***	
172	. –	TO 618		1071 TO	1085	26	6
173		TO 619		1070 TO	1081	26	6
174		TO 620		1069 TO	1977	26	6
**** FOR		TO 869	•	149 TO	157	ABOVE ***	
**** FOR		TO 873		150 TO	161	ABOVE ***	
**** FOR **** FOR		TO 877	•	151 TO	165	ABOVE ***	
• • • •		TO 1077	•	29 TO	37	ABOVE ***	
		TO 1081	•	30 TO	41	ABOVE ***	
**** FOR	1071	TO 1085	• SEE	31 TO	45	ABOVE ***	~

SEARCH FOR PATTERNS OF 7 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 587 SECONDS INTO EXECUTION.

PATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTH
175	29 TO 41		635 TO 620	26	7
176	30 TO 45		601 TO 619	26	7
177	149 TO 161		405 TO 420	26	7
178	149 TO 161		477 TO 492	26	7
179	150 TO 165		401 TO 419	26	7
180	150 TO 165		473 TO 491	26	7
181	401 TO 419		862 TO 877	26	7
182	405 TO 420		861 TO 873	26	7
183	601 TO 619		1070 TO 1085	26	7
184	605 TO 620		1069 TO 1081	26	7

SEARCH FOR PATTERNS OF 8 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 603 SECONDS INTO EXECUTION.

PATTERN	NOTES	5	RELATED	10	١	101	E S	TEST	LENGTH
185	29 TO	45			601	TO	620	26	8
186	149 TO	165			401	TO	420	26	8
187	149 TO	165			473	TO	492	26	8
188	401 TO	420			861	TO	877	26	8
189	601 TO	620		1	069	TO	1085	26	8

SEARCH FOR PATTERNS OF 9 NOTES IN LENGTH -- RHYTHM RETROGRADE W.EXACT RET. INVERSION WAS BEGUN AT 619 SECONDS INTO EXECUTION.

PATTERN NOTES RELATED TO NOTES TEST LENGTH

END OF TYPE I LISTING. TOTAL OF 189 PATTERNS LOCATED.

*** TYPE II LISTING ***

HINDEMITH LUDIS TONALIS FUGA NONA IN B-FLAT, BOTTCM VOICE RHYTHM RETROGRADE W.EXACT RET. INVERSION

	LOCATION OF FIRST OCCURRENCE	TOTAL NUMBER OF OCCURRENCES	LENGTH OF Pattern
JRIGINAL PATTERN	601 TO 620	2	8
SUBPATTERN SUBPATTERN SUBPATTERN SUBPATTERN SUEPATTERN	613 TO 620 617 TO 620 613 TO 619 618 TO 620 613 TO 618	8 8 8 8	5 4 4 3 3
JRIGINAL PATTERN	401 TO 420	2	8
JRIGINAL PATTERN SUBPATTERN	149 TO 165 150 TO 152	3 11	8 3
JRIGINAL PATTERN SUBPATTERN	29 TO 45 30 TO 32	2 5	8 3

^{****} TEST 26 COMPLETED AT 693 SECONDS INTO EXECUTION ****

APPENDIX C

Procedure for Converting the Musical
Score to Computer Input Data.

Source Listing of the Music Analysis Program.

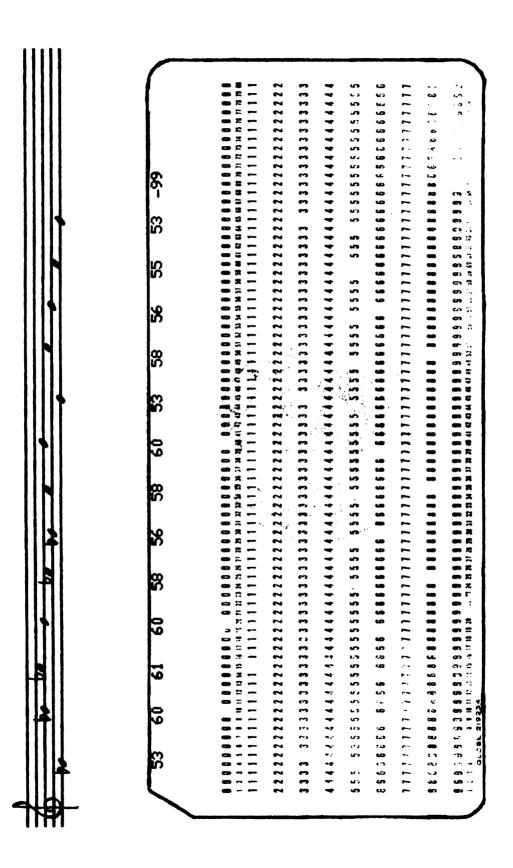
Procedure for converting the musical score to computer input data

The method used for translating musical notation into a form suitable for computer input was designed so that the task could be accomplished in as short a period of time and with as simple a procedure as possible. Since this study measures only limited aspects of pitch and rhythmic content, a relatively simple encoding system was designed which permits the user to encode only the essential pitch and rhythm variables needed for the computer processing. The system does not provide methods for encoding other musical information (such as phrasing, dynamics, and articulation) not needed for this study. Since the computer program was designed to measure pitch and rhythmic elements either together or separately, the encoding process was also designed so that either element could be encoded independently, thereby allowing the user to save a considerable amount of encoding and computer processing time whenever the pitch or rhythmic relationships were analyzed separately. The following description of the encoding process shows how the music notation was translated into a numeric representation and how this representation was punched onto data cards.

The numeric system used to represent pitch required that every semitone within the range of the piano keyboard be assigned to its own numeric representation. The pitch <u>middle-C</u> was arbitrarily assigned the number <u>50</u> with numeric assignments for the other semitones assigned sequentially in the following manner:

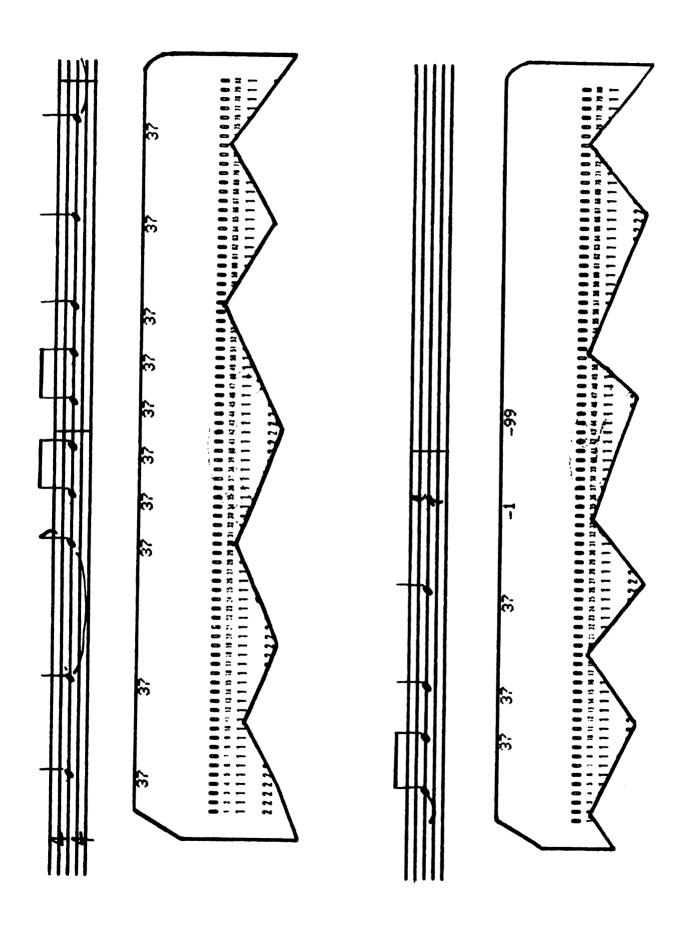


The numeric representation for each pitch was unaffected by the chromatic designation used. For instance, <u>G</u> above <u>middle-C</u> retained its numeric designation <u>57</u> even if the pitch was notated in the score as <u>F</u> double-sharp or <u>A</u> double-flat above <u>middle-C</u>. The following music excerpt is shown with the appropriate pitch designations shown above each note-head. (Tied note-heads only need to be indicated once.) These representations were then transferred to the punched card sequentially from left to right in the manner shown:



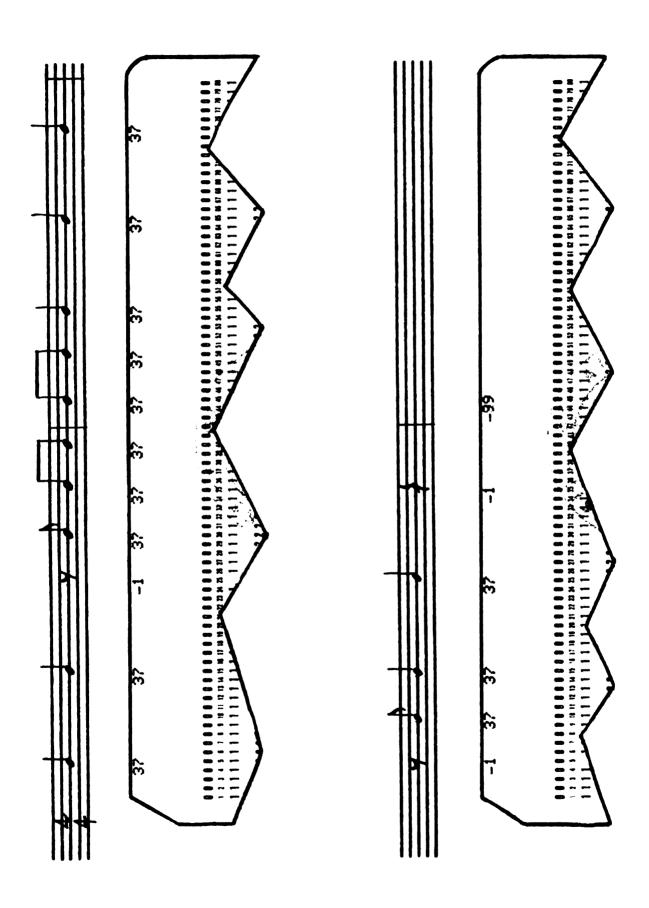
The designation <u>-99</u> was placed at the end of the data to indicate the end of the excerpt. Longer melodic excerpts can be encoded in the same manner with the numeric data punched on to a continuous succession of data cards. The representation of the melody shown above does not reflect the rhythm of the original melody and therefore would only be appropriate for use with Tests 0 through 8.

The system used to designate rhythm was a graphical one, whereby the attack-point for each pitch was separated from the next successive attack-point by a number of physical units proportional to the rhythmic duration separating the two attack-points. The smallest rhythmic duration contained in the musical excerpt was assigned to the unit of division to be used on the data card, thereby providing a graphical representation of any rational rhythm. For the following example, each data card was divided into sixteen units with each unit representing one eighth-note duration:

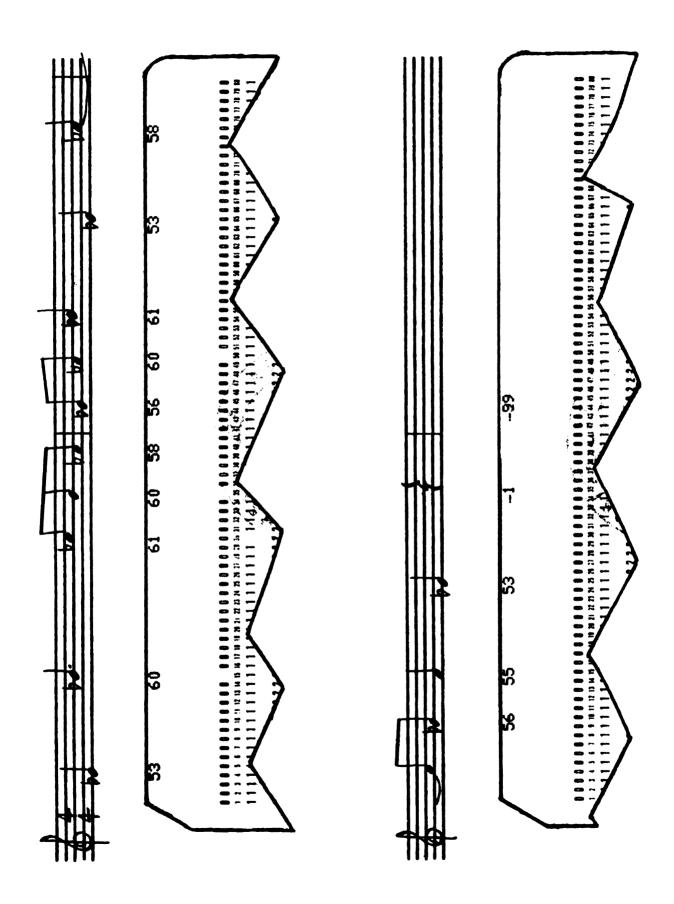


Since this encoding process was designed to represent rhythm only, the actual numeric values punched upon the cards were not important; however, the location of these values upon the data card was all-important. (Any positive integer between 11 and 98 may be used to designate rhythm alone. For the example shown above, the value 37 was arbitrarily chosen.)

It was also possible to indicate rests by punching the numeric value -1 (minus one) in the rhythmic unit which represented the point where the rest began. The indication of rests is optional when using Test 9, and Tests 11 through 18, but is necessary for Test 10, and Tests 19 through 26. If the music example used above was re-written to include a rest (for purposes of illustration), it would be encoded in the following manner:



The method for encoding both pitch and rhythm data required that the process for encoding pitch alone and the process for encoding rhythm alone be combined, as is illustrated in the following example:



The nature of the encoding system can be more easily understood if the user remembers that the computer program locates pitch patterns by comparing the <u>value</u> of consecutive numeric designations regardless of their placement upon the data card; it locates rhythmic patterns by measuring the <u>distance</u> separating consecutive attack-points regardless of their numeric (pitch) content. The program is capable of performing these operations either independently or simultaneously depending upon the test used.

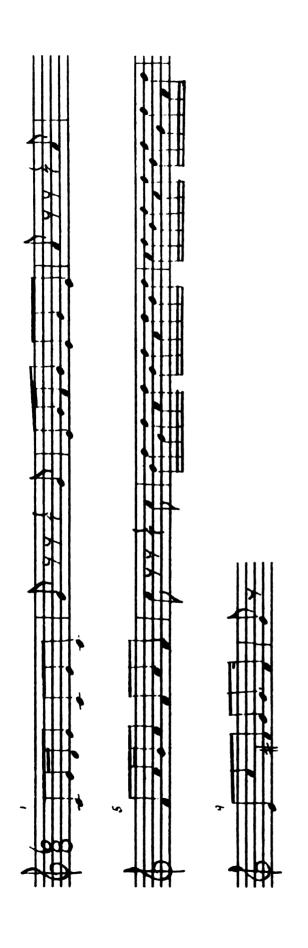
The system for representing rhythm is well suited to visual checking for errors, since the placement of attack-points on the data cards provides a visual representation of the rhythm. While such a system is easy enough that anyone familiar with the fundamentals of music can use it, it is limited in one important respect: it lacks provisions for encoding irrational rhythms. In other words, rhythms which do not evenly subdivide within the prevailing meter cannot be represented with this system.

In order to complete preparation of the data, the user must place two additional data cards before the cards containing the pitch and/or rhythm data. The first card specifies the title of the musical excerpt to be analyzed. The second card contains two numeric values: the first value indicates either the maximum number of rhythmic units to be found on the cards which follow (when using Tests 9 through 26), or the maximum number of pitches to be punched on any card which follows (when using Tests 0 through 8); the second value indicates which test is to be conducted. These two values are punched so that they appear right-justified to columns 10 and 20, respectively.

The following music examples by Bach and Stravinsky illustrate

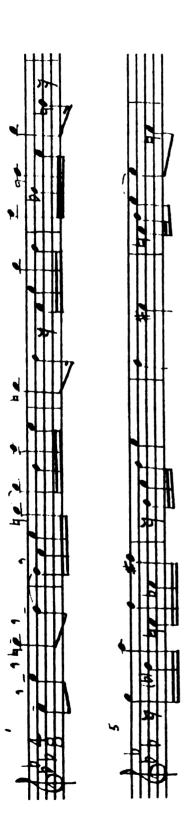
how both rhythm and pitch content of the scores were translated into numeric representation and prepared for submission as input data.

Each printed line beneath the double-ruling represents the content of one punched card.



Card Column Numbers

			ς	OΤ	SI	50	52	30	32	07	57	0\$	SS	09
title card	ırd			J.S	. BAC	H		FUG	UE IN C-M	C-MA.	JOR			
rhythmic	mits	rhythmic units per card; test		12		12								
measure	-		20		54	52	54		20		50		20	
measure	7		27		ヿ								57	
measure	m	cards	54		57	55	57		54		57		24	
measure	4	containing	29		7								29	
measure	Ŋ	pitch and	55		29	57	29		55		59		55	
measure	9	rhythm	62		7								62	
measure	7	data	61	6 4	27	9 4	29	6 4	61	6 4	29	94	19	9 4
measure	œ		62	9 4	61	9 4	59	6 4	61	94	57	6 4	55	9 4
measure	0		54		62		2 6		55		55			26
measure	10		27		-99									

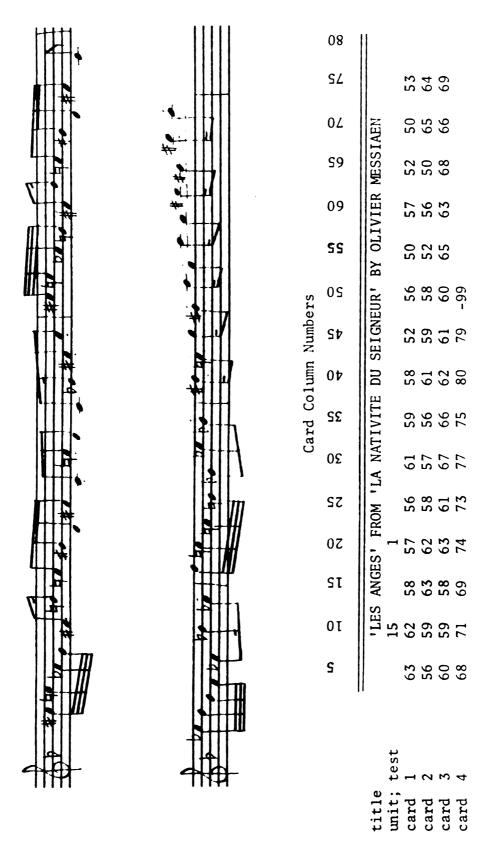


Card Column Numbers

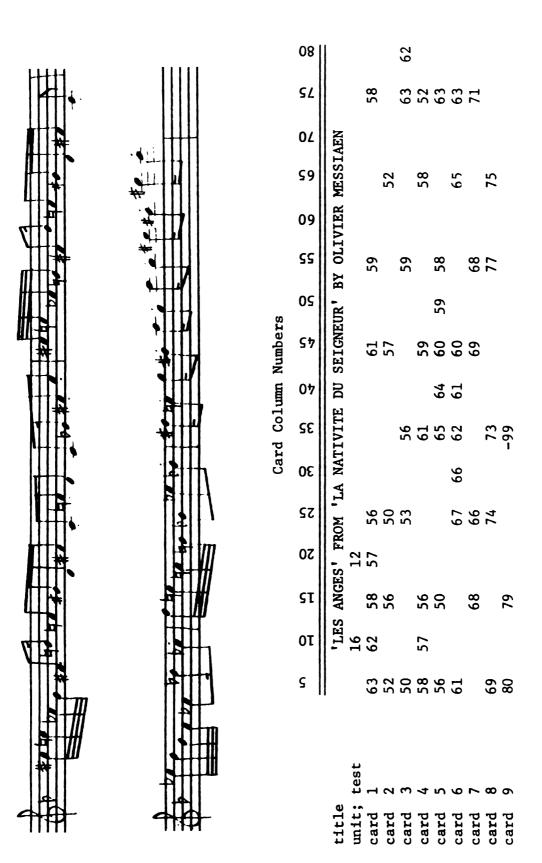
	S	0T S	ST	02	52	30	35	07	57	05	SS	09	59	04	S۷	C 8
		IGOR ST	STRA	VINSK	J.	SY	MPHON	Y OF	PSALM	S, SE	COND	PHONY OF PSALMS, SECOND MOVEMENT	ENT			
test		16		14						,						
, 2	62		65		73		9			62	65	73		9	74	65
4	73		94	7	62	65	73	9	74	63	71	62	72		61	7
9		69	9	20	29	4	58	89	7	9	62	6 4	65			
∞	9				63				62	94	65				59	
end of data	-99															

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The following music excerpt by Messiaen was encoded in two ways. The excerpt is first shown encoded so that only the pitch content of the musical score is represented on the punched card. This method of representation was designed to be used by the analyst who wishes to analyze the data with tests which analyze pitch content only (Tests 0 through 8). The second method of encoding illustrates how both pitch and rhythm content are represented on the punched card. This method of representation must be used if the analyst wishes to analyze the data with tests which analyze rhythm content (Tests 9 through 26); it may also be used with Tests 0 through 8 as well.



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There is one additional feature of the encoding system which was designed to facilitate the coding of music which contains a change of meter. This feature allows the user to change the number of notes or rhythmic units to be read from each data card. This change is accomplished by placing a special card before the cards which contain the new number of notes or rhythmic units per card. This special card is indicated by the number -88 punched in columns 3 through 5 followed by the new unit number which is punched right-justified to column 10 on the same card. 1

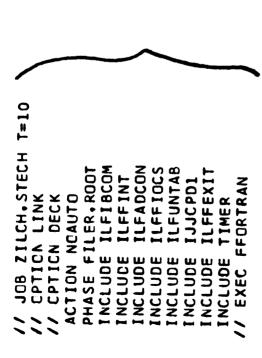
The example found on the following page illustrates the procedure. The melody begins in $\frac{6}{8}$ meter with the smallest duration being the sixteenth-note. In order to place the content of one measure to a card, it is necessary to assign the unit equal to the sixteenth-note and code twelve of these units (or one measure) to each data card. At measure five, the meter changes to $\frac{2}{4}$; in order to continue punching the content of one measure to each card, the card containing the numbers: -88 8 is placed in the data deck to reduce the number of units to be read from the cards which follow to eight. At measure twelve, $\frac{6}{8}$ meter is re-established and the card containing the numbers: -88 12 causes the program to read another twelve units of data from the following card.

Unit values must always be greater than zero and less than seventeen. When raising the unit value from one (1) to a greater value, two identical cards of this type must be included to accomplish the change.

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Robert W. Ottman, Music for Sight Singing, 2nd ed., © 1967, p. 205. By permission of Prentice-Hall, Inc., Englewood Cliffs, New Jersey.

Source Listing for the Music Analysis Program



IBM 360/40 Control Cards

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		R001	22	
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IF(UNIT.GE.2.AND.UNIT.LT.16) WRITE(3.40)
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                                                                                                                                                   IF(UNIT.ED.1) WRITE(3,50) J.NOTE(J)
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         IF(TEST.GE.OC.AND.TEST.LE.26)
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                                                                                   READ(1,39) (NOTE(1),1=J.K)
                                                                                                                                IF (NOTE (KK) . EQ. 99999)
                                                                                                                                                                                                                                                                  IF(KK.LE.NT) GO TO 8
                                                                                                             IF(KK.GT.NT) GO TO 7
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                                                                                                                        IF(NOTE(L).FO.(-1).AND.NOTE(L+1).E0.00) NOTE(L+1)
                                                                                                FOLLOWING LOOP CHECKS FOR MIS-PUNCHED DATA.
(1+C) = NOTE (1+1)
                                                                                                                                                                                                                      IF(TEST.GE.11.AND.TEST.LE.18) GO
LR = 6
LS = 10
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                                                                                                                                                                IF (LN.LE.99.AND.LN.GE.10)
IF (UNIT. EQ. 1) READ(1.39)
                                                                                                                                                        GO TO 11
                                                                                                                                        IF(LN.EO.(-1)) GO TO 11
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                        IF (KA.GT.16) GO TO
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                                         UNIT
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                                                                                                                DO 11 L=1,MASTB
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               WRITE(3,53) KA
       KA = NOTE(J+1)
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                                                                                                                WRITE(4) (ALPHA(LN).LN=LP.LD)
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                                      IF(TEST.LE.14) GO TO 15
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                                            LBACK = (-1)
LBACK = (-1)
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IF (NOTE (ASTOR), GT.03) GO
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       ASTOR = ASTOR + 1
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WRITE(3.45)
GO TO 28
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                                                                                                                                           IF (TSTOR. EQ.00)
                                                                                                                                    LASTOR = ASTOR
                                                                                                                                                         IF(TSTOR.EQ.9)
                                                                            TESTA = BSTOR
                                                                                                                                                   WRITE(3.48)
                                                                                                                                                                                                        WRITE(3,47)
                                                 LV = LV + 1
                                                                                                        LX = LX + 1
                                                                                          LW = LW + 1
                                                                                                                                                                                                                               WRITE(3,43)
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                                                                      BSTOR = LT
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34 IF(TSTOR.LT.15) GO TO 35 IF(TSTOR.GT.22) GO TO 35 WRITE(3.42)	\vdash	
35 WRITE(4) MASTB.NOTE.LIB.ASTOR.BSTOR.TESTA.NNNB.LL.LZ.LBACK.KTES. 1TESTB.TESDIF.SWITCH.SPECEK.LFLAG.LPZ.LTIME.LTEST.KDGT.LDGT.LLL. 1TSTCR.LASTOR.LHOLD.LLX.LSJB.LTOTAL.NNN.KEY.NDIGIT.LTALLY.LIMPR. 1LPOR.JUNCT REWIND 4 RETURN	X X X X X X X X X X X X X X X X X X X	. W W W W W W
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1 FORMAT(10X,5110) 2 FORMAT(34X,55HLISTING MAY INCLUDE SOME CROSS-REFERENCES TO STATE) 1NTS./.36X.51HNOT PREVIOUSLM SHOWN. IGNORE THESE CROSS-REFERENCE 1/.36X.11HSTATEMENTS/) 3 FCRMAT(34X,61H'SYM' DESIGNATES NONRETROGRADABLE (I.E., SYMMETRIC.	ESTR STR STR LSTR	<i>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</i>
1) RHYTHM/) 4 FORMAT(10A8) 5 FORMAT(110A8) 142X,20HFOUR NOTES-IN-LENGÍ/) 142X,20HFOUR NOTES-IN-LENGÍ/) 6 FORMAT(41X,42HPATTERNS WHICH CONTAIN AN UNDEFINED RHYTHM./) 7 FORMAT(40X,39HPATTERNS WHICH CONTAIN AN UNDEFINED RHYTHM./) 8 FORMAT(40X,39HPATTERNS WHICH FOLLOW/) 9 FORMAT(1/,34X,48HTHE FOLLOWING TYPES OF PATTERN HAVE BEEN DELET 1/,36X,33HFRCM THE LISTINGS WHICH FOLLOW/) 9 FORMAT(1/,34X,4HNOTE,15,110) 1 FORMAT(1/,34X,5HNOTE,15,110) 1 FORMAT(1/,34X,5HNOTES,15,8H THROUGH,15) 2 FORMAT(1/,34X,13(1H*),34H *USIC MELODIC PATTERN ANALYSIS , 113(1H*), //,25X,10A8,//,40X,15HTEST REQUESTED ,14,/,40X, 123HUNITS OF DATA PER CARD ,14,////,40X,37HCOMPUTER REFERENCE N	STR STR STR STR STR STR STR STR STR STR	2000 2000 2000 2000 2000 2000 2000 200

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                                                                                            .8HMAJOR
                                                                                                         10.8HPERF.
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                                                                               . SHPERF.
                                                                                                                                                                         PITCHES. A NEGATIVE RESULT INDICATES AN ASCENDING
                                                                                            6 . 8HMINOR
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                                                                                                        9 . BHMINDR 10. BHMAJOR
                                        DOUBLE PRECISION LAMMA(24. LTITLE(10).LTEST(10)
COMMON/A/IFILE.TEST.KPHAS.DIGIT.LIMIT
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             DIMENSION LSKOR(26), SKOR(26), NOTE(5000)
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                                                   F((J.EQ.1.OR.J.EQ.3).AND.INTVAL.GT.24)
                                                           IF(J.LE.2.AND.INTVAL.LT.(-24)) GO TO
IF(INTVAL.GT.24) GO TO 3
                                                                                                                                                                                                                CONVERSION TO FLOATING POINT MODE
                                                                                                                                                                                                                                                                                   - (SKOR(1))
 10
                                                                             m
                                                                                                                                                       = SKOR(KSUB) + 1
        IF(NOTE(I).LE.00) GO TO 4
IF(NOTE(I).GE.999) GO TO 2
                                                                            IF(INTVAL.LT.(-24)) GO TO IF(INTVAL.EQ.00) GO TO 8
                                            INTVAL = LTESTA - LTESTB
F(NOTE(1).EO.(-99)) GD
                                                                                                                                                                                                                                                                                                   PERCENTAGE COMPUTATIONS
                                                                                                                                                                       SKOR(1) = SKOR(1) + 1
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                                                                                                                      = IABS(INTVAL)
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                                                                                                     IF(INTVAL) 7.3.3
                                                                                                              IF (INTVAL) 3.3.7
                          LTESTB = NOTE(I)
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11 LSKOR(M) = SKOR(
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                                                                                             GO TO (7.5.6).J
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                                                                                                         LAMMA(LL).LSKOR(KK).SKOR(KK)
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                                                                                                                                WRITE(3,37) LSKOR(26).SK33(26)
                                                                                                                           WRITE(3,35) LSKOR(1), SKOR(1)
                 SKOR(M) = (SKOR(M)/XXL)
     IF(XXL.LE.00) GO TO 14
                                                                                                                     IF(J.GT.1) GO TO 20
                                  WRITE(3.31) LTITLE
GO TO (15.16.17), J
                                                                                                                                             GO TO (22,23,24).
                                                                                              00 19 LL = 1,24
           M = 1.26
                                                                                                                                                                                                        CALL TIMER(JX)
                                                                                                                                                   WRITE(3.40) LX
                                                                                                                                                              WRITE(3.41) LX
                                                                                                                                                                           WRITE(3,42) LX
                             WRITE(3,36)
                                                                                                   KK = LL + 1
                                                                                                         WR ITE (3,38)
                                                                 WRITE(3,33)
                                                                            WR ITE (3,32)
                                                                                  WRITE(3,34)
                                                    WR I TE (3,30)
                                                                      GC TC 18
                                                          GO TO 18
                                                                                                                                                         GO TC 25
                                                                                                                                                                     GO TO 25
                                                                                                                                       LX = XXL
                                                                                                                                                                                 CONT INUE
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                          IVAL
                                                                                                                                                                                                                                                                                                                                                                                                           FCRMAT(34x, 10HINTERVALS .13x.15,19x,F6.2,/.36x,13HEXCEEDING TWC,/,1VAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FORMAT( // .34x .10H**** TESI . 13.13H COMPLETED AT . 15.29H SECONDS INTIVAL
                                                      VAL
                                                      TESDIF . (LTEST (KB).
                                                                                                                                                                                                                                                                                                                                      FORMAT (46X, 34H (INCLUDING EVHARMONIC EQUIVALENTS), ///.56X,
                                                                                 TESDIF.L TEST
                                                                                                                                                                                                                                                                                                                                                    5HT OT AL . 16X . 1 OHP ERCENTAGE. / . 53X. 11HOCCURRENCES. 12X.
                                                                                                                                                                                                                                                                                 DESCENDING INTERVALS*)
                                                      IF (LPOR.GT.15.AND.TSTOR.LF.10) WRITE (3.44)
                                                                                 IF(LPOR.GT.15.AND.TSTOR.GT.10) WRITE(3.45)
                                                                                                                                                                                                                                                                                                                                                                                .13x.15.19X.F6.2
                                                                                                                                                     TEST.JX
                                                                                                                                                                                                                                                                                                            FORMAT(53X, 20HDESCENDING INTERVALS)
                                                                                                                                                                                                                                                                                                                         FORMAT(53X.19HASCENDING INTERVALS)
                                                                                                                                                                                                                                                                                                                                                                                                                                      38 FORMAT(34X, A8.12X,15.19X.F6.21
                                                                                                                                                                                                                                                                                 FCRMAT (46X, 35HASCENDING AV)
                                                                                              IF(LPOR.GT.15) WRITE(3,46)
                                                                                                           IF(LPOR.LE.15) WRITE(3.47)
                                                                                                                                                     WRITE (3,394
                                                                                                                                                                   WRITE(3,364)
27
                                                                                                                                                                                                                                                                   STATEMENT NUMBER UNUSED.
[F(TSTOR.EQ.CO) GO TO
                                                                                                                                                                                                                                                                                                                                                                               FORMAT (34X . 10 HUN I SON
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                                                                                                                                                                                  CALL
                                         WRITE(3,31) LTITLE
                                                                                                                                                                                                                                                                                              FORMAT (25x, 10A8, /)
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                                                                                                                                                   IF ( TEST.E0.00 )
                                                                                                                                                                 IF(TEST.EQ.00)
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                                                                                                                                                                                IF(TEST.E0.00)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10 EXECUTION
             WRITE(3,36)
                          WRITF (3,43)
                                                                                                                           GO TO 28
                                                                    1KB=1.3)
                                                                                                                                                                                             REWIND
                                                                                                                                                                                                            RETURN
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1 FORMAT(5		ASCENDING INTERVALS COUNTED!	:OUNTED)		IVAL	145
42 FORMAT (53X . 16 . 29H		DESCENDING INTERVALS COUNTED	COUNTED)		IVAL	146
43 FCRMAT (54X, 22H***		11.44 SNILS			IVAL	147
4 FORMAT (44X. 22 HSEA	RCH FOR PATTERNS	TTERNS OF.]	OF. 13,20H NOTES IN LENGTH	IN LENGTH	IVAL	148
1/.53X.3A8)					IVAL	149
45 FORMAT (44X. 23HSEAR	RCH FOR PA	TTERNS OF .	CH FOR PATTERNS OF .13.20H NOTES IN LENGTH	IN LENGTH	· IVAL	150
1/.44X.10A8)					TVAL	151
46 FORMAT (45X. 12HWAS		I5.24H SECON	BEGUN AT. 15.24H SECONDS INTO EXECUTION///.	CUTION//		152
	NOTE S	RELATED TO) NOTES	TEST	TEST LENGTIVAL	153
14.//)					IVAL	
47 FCRMAT(//.					IVAL	
134X.60HPATTERN	NOTES	RELATED TO	NOTES	TEST	LENGTIVAL	156
14.//)					IVAL	157
END					IVAL	158

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          INTEGER OLD LIM, ASTOR, BSTOR, TESTA, TESTB, TESDIF, SWITCH, SPECEK, TSTOR, NOTB
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                                                                                                                     READ(4) MASTB.NOTE.LIB. ASTOR.BSTOR.TESTA.NNNB.LL.LZ.LBACK.KTES.
                                                                                                                              ITESTB.TESDIF.SWITCH.SPECEK.LFLAG.LPZ.LTIME.LTEST.KOGT.LDGT.LLL.
                                                                                                                                        ITSTOR. LASTOR. LHOLD. LLX. LSJB. LTOTAL. NNN. KEY. NDIGIT. LTALLY. LIMPR.
                    1TO.YHOL D.TEST.DIGIT.AS.BS.IA.TB.TESTC
                                                CCMMCN/A/IFILE.TEST.KPHAS.JIGIT.LIMIT
                                       DOUBLE PRECISION LTEST(101.LETA(2)
                              DI MENSIEN NOTE (5000). LIB (45000)
                                                           (WAS)
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                                                                                                                                                                                                                                                                                = LHQ 0
                                                                                                                                                                               IF(LASTOR.EQ.ASTOR) GO TO
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                                                                    CATA INDEXG.KP.NRR/1.2.1/
                                                                                                  IF(IFILE.E0.00) GO TO 57
                                                                                                           IF(LFLAG.EQ.2) GO TO 39
                                                                                                                                                                                                                                                                                                   IF(LLG.GT.LDIGIT) GO TO
                                                                                                                                                                                                                                                                                                             DO 26 NNNB = LLG.LDIGIT
                                                                                                                                                                     IF(DIGIT.EQ.1) GO TO
                                                                                                                                                                                                                                                                               IF (TESDIF.GT.3) LLG
SUBROUTINE NOTEB
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IF(SPECEK.EQ.00) GD

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.LE.00) GO TO 10
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                                                                                                   LTEMP = NSTORA - NSTOR
                                                                                         NSTORB = LA # (10**6)
                                                                                LA = NSTORB/(10**6)
                                                                                                            LB = LTEMP/(10**2)
                LIB(NNNB)
                                                    = NSTORB
= NSTORB
                                   IF (NSTORA.GT.00)
118(11)
                                                                                                                   TD = LTEMP - (LB

TD = TD - 1

AS = LA

TA = LB

IF(LP2.EQ.(-11)

LX = 0

LV = 0
                          = NSTORA
                                                                                                                                                                                               IF(LPZ.EQ.(-1))
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                                                                                                                                                       GO TO 17
                                                                                                             IF(LOOP.EQ.00) GO TO 25
IF(TSTOR.LE.8) GO TO 16
              IF(JFLAG.EQ.(-1)) GO TO
                   G0 T0 12
G0 T0 26
                                                                                                                                                            (10**6)
                                                                                                                                                                 (10**2)
                                                                                          IF(TEST.GE.9) GO TO 1
                                                                                                                      IF(KEY.EQ.1) GO TO 16
IF(LX.EC.LSUR) GO TO
                                                                                                                                         2
                                                                                                                                         IF(NX.NE.NY) GO
CONTINUE
                                                                                                                                                       IF (TESDIF.GT.3)
                                                                                                                                                            = ASTOR #
                   IF ( JAS. NE. AS)
                                                                   00 16 L=1.LTD
                        IF ( JBS. EQ. BS)
                                  AS
TESDIF
                                                                                                                                NX # MA | MB
NY # MC | MD
                                                                                                                                                                = BSTOR
                                                                                                                                                                     LIB(DIGIT) =
                                                                        INDEXC = 1
                                                                                GO TO 119
                                                                                                   GC TG 104
    GO TO 10
         TB = LW
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                                                     WRITE(5) SPECEK, ASTOR, BSTOR, AS, BS, TESDIF, SPECEK
                                                                                                                                                                                                                     ASTOR, BSTOR. 45.85
      IF(DIGIT.GT.LIMIT) GO TO 129
                                                                                                                                                                IF(PD.GT.(MAST8+1)) GO TO 24
                                                                                                                                                                       IF(NOTE(MD).NE.00) GO TO 22
GO TO 21
                       20
                                                                                                                                 IF (NCTE(MB) .NE.OC) GO TO
                                      27
                                                                                           IF(TSTOR.LT.9) GO TO 23
IF(ASTOR.E0.AS) GO TO 24
                        11
                                                                                                                                                                                                      MB
GO TO 25
                      IF(TSTOR.LT.9) SWITCH
                             IF(KEY.LT.1) GO TO 18
IF(ASTOR.EQ.AS) GO TO
DIGIT = DIGIT +
                                                                                                                                                                                              NX # 85 - MD
NY # 85TOR -
                                                                                                                                                                                                                     WRITE (3.131)
                                                                                                                                                                                                             IF (NX.NE.NY)
                                              SWITCH = 50
                                                                                                                                                         M = M0 + 1
                                                                                                                         = M8 + 1
                                                                    INDEXG = 2
                                                                                                                                                                                                                             INDEXG = 1
                                                                                                          = BSTOR
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BS
                                                            GO TO 27
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JBS = E
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                                                                                                                                                                                       IF(LX.EC.LSUB) GO TO 35
                              IF(SWITCH.ED.50) GO TO
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                                                                                                                                 LASTOR
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                                                                         IF(TESTB.GT.MASTB)
GO TO 1
                                                                                                                                                                           IF ( NOTE ( LW) . LE.00)
                                                                                            IF (TESDIF.GT.3)
                                                                                                                                                                     [F(LW.GT.MASTB)
                                                                                                                                 IF(DIGIT.EQ.1)
                  ASTOR
                                                                                                  ASTOR
                                                 = TESTA
                                                                                                        BSTOR
                                                                                                                                      BSTOR
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                                                                                                                    INDEXD = 2
                                                                                                                                                         TESTA
                                                             INDEXD = 1
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                                                                   GO TO 113
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                                          GC TO 58
TESTA = T
26 CONTINUE
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                                                      TESTB =
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           SPECEK
LASTOR
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                                               10**21
                                                                                                                                                                   IF (BSTOR.GT.MASTB)
                                                                                                                                                                                                                   IF (NOTE (LW) .LE.00)
                                                                                              00 52 LL=LZ, LHOLD
                                                                   IF (DIGIT.GT.LIMI
                                                                          TFILL.EG.LHGLD)
                          IF (TESDIF.GT.5)
                                  IF (ASTOR.EQ.AS)
                                                                                                                                                                                                           F(LW.GT.MASTB)
                                                                                                                                       IF(LPZ.NE.(-1)]
                                                                                                                                                                                                                               IF(LX.EQ.LSUB)
                                                                                                                                                                                = TESDIF
= DIGIT
                                                      L18(DIGIT) =
                                                             01GIT = 01GIT
                                                                                                                                                                         TESTA = BSTOR
                                        LASS = ASTOR
LBSS = BSTOR
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IF(TESTB.GT.MASTB)
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                                                                                                                     MA = BS
MB = BSTOR
IF(LBACK.EQ.1) (
MC = TA
MD = TESTA
                                         LSUB = 1
IF(LBACK.EO.1)
TESTA = TA - 1
TESTB = TB
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                                                                                     WRITE STATEMENT
                                                                             TO DETERMINE THE MINIMUM SIZE OF "LIB" ARRAY NEEDED FOR ANY
                                                                                                                                                                             ILTALLY.NDIGIT.LDGT.LTIME.TSTOR.MASTB.LPOR.LTEST.KEY.ASTOR.
                                                                                                                                                                    LTOTAL, LLX, LBACK, LPZ, TESDIF, NNN, JFLAG, LIMPR,
                                                                                                                                                                                     1LHOLD.KTES.SWITCH.SPECEK.BSTOR.TESTA.TESTB.KDGT.JUNCT
                                                                                      GIVEN COMPUTER RUN. ACTIVATE THE FOLLOWING
                                                                                              IF(TESDIF, EQ. 4) WRITE (3,132) LO4
                           54
         = 103
                          IF (LIB(N).EQ.(-10)) GO TO
                                                                                                                                                            IF(IFILE.E0.1) GO TO 128
[F(103.6E.104) GO TO
        IF(TESDIF.GE.5) LQ3
                                                                                                                                                                                                                                                                                                                = 1.LSUB
                 DO 54 N = LO3, LO4
                                                                                                                                                                                                                                                  LTALLY = LTALLY +
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                                           LIB(N)
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                                                   CONTINUE
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                                                       IF(TSTOR.EQ.10) GO TO 61
                                                                                                             IF(TSTOR.LT.9) GO TO 65
                                             IF (TSTOR. E0.9) GO TO 61
                                                                                           IF(LOOP.EQ.00) GD TO 99
IF(KEY.GT.00) GD TO 65
59
                                                                                                                                                                                                                                                                 IF(KEY.GT.00) GO TO 69
IF(TSTOR.LT.9) GO TO 69
MB = BSTOR
WD = TESTB
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IF(NOTE(MC).NE.00) GD
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IF (LSUB. EQ. 1)
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                                                                                                                                                                                                                                                                                                              MB = MB + 1
                                                                                                                                                                              MO = MO + 1
                           INDEXB = 2
                                                                INDEXC = 2
                                     GO TO 119
                                                                         GO TO 104
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           IF(MD.GT.(MASTB+1)) GO TO 99
IF(NOTE(MD).NE.OO) GO TO 68
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                                                                                                                                                                                                               IF(KLJ.E0.00.AND.KLL.E0.03)
                                                                                                                                                                                                                     IF ( KLK . EQ.00.AND.KLL . 50.00)
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IF (NOTE (LBY). GT.NOTE (LTT))
IF (NOTE (LBY). EO.NOTE (LTT))
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                                           IF(LLX.EQ.10) NX
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LTSS = TESTA
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                                                                                                                     IF(TSTOR.E0.9
                              IF ( NOTE ( JTT )
                                                                            [F(NOTE(LTT)
                                                                                                                                                    BSTOR
                    BSTOR
                                                                                                                                                         IF ( NOTE (LTT
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                                           N3TE(LTTT).NE.00)
NOTE(LTTT).EQ.00)
                                                                                                        GO TO (71,92,71,92,71,92,71,92), LTTT
                                                                                                                                                                                                                                                                     GO TO (71,92,71,92,71,92,71,92), TEST
                                                                                                                                                                                                         PJX = NOTE(LBY) - NOTE(LTT)
                                                                                                                                                                                                                                           MJO = NOTE(LBY) - NOTE(LTT)
AS
                                                                                                                                                    16
                                                                                                                                                                                                                                                                                                        IF(JUNCT.E0.00) GD TD 96
                = ASTOR, MSTOR
                                                                                       GO TO 92
                                                                                                                                                                                                                                                            IF(TSTOR.GE.19) GO TO 81
                                                                                                                                                                                                                                                                                      GO TO 19
                                                   IF ( NOTE ( LTT ) . NE . DO. AND.
                                            IF (NOTE (LTT).EO.00.AND.
                                                                                                                                                                                                                                                   IF(MJQ.EQ.MJX) GO TO 88
                                                                                                                                                                                                                                                                                                                00 94 LBX = ASTOR, BSTOR
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                                                                                                                                                                                                IF(LOFF.EQ.1) GO TO 90
                                                                                                                                                    G0 T0
IF(SPECEK, EQ.00) MJO
                          LTT = ASTOR + LLK
                                  = MJO + LLK
                                                                                                                                                                                                                                   PLX H MLX + (-1)
                                                                                               LTTTT = TSTOR -
                                                                                                                                                   IF (TESDIF.LT.5)
                                                                                       IF (TSTOR. E0.10)
                                                                                                                                                                                                                                                                                      IF (INDEXG.EO.2)
                                                             LLK = LLK + 1
                                                                                                                                  TRILL FILTER
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                                                                                                                                                            LTT = ASTOR
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                                                                 WRITE(3,130) KDGT, ASTOR, BSTOR, LETA(NRR), TESTA, TESTB, TSTOR, TESDIF
                                                                         WRITE(6.132) & STOR. BSTOR. TESTA. TESTB. TESDIF
                                                                                           LDGT. ASTOR. BSTJR. TESTA. TE STB. TE SDIF. SPECEK
98
                         98
                                                                                                                                                                                     IF (NOTE (LTT). GT.00) GD TD 102
0
                        IF(NOTE(LBX).EQ.99999) GO TO
                                                                                                                            IF(DIGIT.GT.LIMIT) GO TO 129
                                                                                                                                                                              TO 103
IF(NOTE(LBX).EQ.99999) GO
                                                                                                                                                                                                                               24
                DO 95 LBX = TESTA. TESTB
                                                                                                                                                                                                                               G0 T0
                                                                                                                                                                                                               GO TO (73,89), INDEXE
                                                                                                                                            99 GD TD (30.50), INDEX
                                                                                                                                                                              IF (LTT. GT. BSTOR) GO
                                                                                                                   DIGIT = DIGIT +
                                                                                                                                                                                                                               IF (INDEXG.FO.2)
                                                 KDGT = KDGT +
                                                                                                            LOGT = LDGT +
                                                                                                                                                                     = LTT + 1
                                                                                                                                                                                              = LTT + 1
                                                                                                                                                                                                                                                                NOTE (MA)
                                                                                                                                                                                                                                                                        NOTE (MB)
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                                                                          IF(LFA.E0.6)
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                                 CONTINUE
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        CONTINUE
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GO TO (106.108.105.107.108.108.105.107). TEST
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                                                                                                                                                                            111
                                             0
                                                                                                                                                                                                                                                                                                                                                         TO 118
                                             IF(LA.LT.LB.AND.LC.LT.LD)
IF(LA.GT.LB.AND.LC.GT.LD)
                                                                                                                                                                            IF (LA.LT.LB.AND.LC.GT.LD)
                                  IF(LA.EC.LB.AND.LC.EQ.LD)
                                                                                                                                                                 IF(LA.EG.LB.AND.LC.EQ.LD)
                                                                                            GO TO 110
                                                                                                                                                                                        IF(LA.GT.LB.AND.LC.LT.LD)
                      IF(SPECEK, EQ. 6) GO TO 10
                                                                                                                                                                                                                                                 IF (SPECEK.EQ.00) NY = NY
                                                                                                                              IF(NX.EO.NY) GD TO 111
                                                                                                                                                                                                                                                                                                                                                                  IF(NOTE(TESTR).GT.30)
TESTB = TESTR + 1
GC TC 114
                                                                                                                                                                                                                                                             IF(NX.EQ.NY) GO TO 111
                                                                                                                                                                                                                                                                                                                                                         IF(TESTB.GT.MASTB) GO
                                                                                                                                                                                                                                                                                                           GO TO (14.60), INDEXC
                                                                                                                                                                                                                                                                                                                                                                                                                   IF(TESTA.LT.1) GO TO
                                                                                            IF (SPECEK.EQ. 6)
                                                                                                      NX = LA - LB
NY = LC - LD
                                                                                                                                                                                                                           NX = LB - LA
                                                                                                                                                                                                                                     = 10 - 10
                                                                                                                                          GO TO 112
                                                                                                                                                                                                                                                                                                                       INC =
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= 111 + (-1)
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                                                           IF(NOTE(ASTOR).GT.00) GO TO 117
                                                                                                                                                                                                                                                                                        IF(NOTE(MA).GT.00) GO TO 121
IF (NOTE (TESTA). GT. 30) GO IS
                                                                                                                                                                                                GO TO (31,33,41,47), INDEXD
                                                                                                                                                                                                                                                                                                                                                                   IF (NOTE (MB) .GT.00) GO TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                             IF(LBACK.EQ.(+1)) GO TO 123
                                                                                                                                                                                                                                                                                                      LLA = LLA + 1
MA = ASTOR + LLL + LLA
                                                                                                                      IF (BSTOR.GT.MASTB) GO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF (SPECEK.E0.00) INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IF(SPECEK, EQ. 6) LLL
             TESTA = TESTA + INC
                                                                                                                                                   BSTOR = BSTOR + 1
                                                                           ASTOR = ASTOR + 1
                                                                                                                                                                                                                                                                                                                                                                                              MB = ASTOR + LLL
GO TO 121
                                                                                                                                                                                                                                           ASTOR + LLL
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                                                                                                                                                                                                                                                                                                                                                                                118 = 118 + 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            INC = (-1)
                           GC TO 115
                                                                                        GC TO 116
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124	IF(SPECEK.E0.00) TESTC = 4S MC = TESTC + LLL + LLC MD = TESTC + LLL + LLD + INC	TO TO TO	444
125	IF(NOTE(MC).GT.00) GO TO 126 LLC = LLC + INC MC = TESTC + LLL + LLC GO TO 125	0 0 0 0 0 0	ひひひむ
C 126	IF(NOTE(MD).GT.00) GN TO 127 LLD = LLD + INC MD = TESTC + LLL + LLD + INC GO TO 126	55555	4 N N N N N I
127 128	.59). INDEX .1) GO TO 1		ռտտտ
129	V ~ 10	X X X X X X X X X X X X X X X X X X X	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
C 130 131 131 132	X.I5.3X.I5.3H TO.I5.2X.A8.I5.3H TO.I5.4X.I3.I7) X.8H*** FOR.I5.3H TO.I5.1H6X.3HSEE.I5.3H TO.I5.1IH A X.5I10)	07 07 07 07 07	46666

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12	:DIF.ASTOR.BSTOR.TESTA.TESTB.	HEAD	. 2
WITCH. SPECEK		EA	m
CUBLE PRECISION LTEST(1		ΕA	4
CMMCN/A/IFILE.TEST.K	GIT.LIMIT	EA	Ŋ
		EA	9
AD(4) LTOTAL.LLX.LBACK.L	Z. TESDIF.NNN.JFLAG.LIMPR	EΔ	_
LY.NDIGIT.LDGT.LTIME	OR.MASTB.LPOR.LTEST.K	EA	80
CLD, KTES, SWITCH, SPECEK, BS	OR. TESTA. TESTB. KDGT. JUNC	EA	6
NINO		EA	
		ΕA	
(KPHAS.E0.2) GD T		EA	12
TALLY = LDGT - NDIGI		EA	
F(JTALLY-EQ-00) IFILE		EA	
F(ASTOR.EQ.362436) GO TO		EA	
F(IFILE.EO.2.AND.KEY	GO TO 6	ĒΑ	
F(IFILE.EO.2)		EA	
F(KEY.E0.1.AN	GO TO 2	EA	
DIGIT = LOGT		EA	
ESDIF * TESDIF		EA	
F(KEY.EQ.1.AND.KPHAS.	60 T0 6	EA	
F(LPOR .GT.15) WRITE		EA	
FILPOR .GT.15) WRITE		EA	
F(TSTOR.GT.10) GO TO		EA	
F(LPOR.GT.15) WRI	TESDIF, (LTEST(KB), KB=1,3)	ΕA	
0 10 5		EA	
F(LPOR.GT.15	TESDIF.LTEST	EΑ	
ALL TIMER(LY)		EA	
Y=(LY-LTIME)/60		EA	
F(LPOR.GT.15)	٢.\	EA	
0 TO 7		EA	
F(KEY.LE.O)		EA	
F(JTALLY.GT.1) GO		EA	
F(KPHAS.E0.2) G		EA	
FILE =		ΕA	
PHAS =		ΕA	

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                                                                                                                                                                                                                                                                                                                        FORMAT (45X.12HWAS BEGUN AT.15.24H SECONDS INTO EXECUTION...///
                                                                                                                                                                                                                                                              10 FORMAT (44X, 22 HSEARCH FOR PATTERNS OF, 13, 23H NOTES IN LENGTH
                                                                                                                                                                        1LTALLY, NDIGIT, LDGT, LTIME, TSTOR, MASTB, LPOR, LTEST, KEY, ASTOR,
                                                                                                                                                            WRITE(4) LTGTAL, LLX, LBACK, LPZ, TESDIF, NNN, JFLAG, LIMPR,
                                                                                                                                                                                        LHOLD.KTES.SWITCH.SPECEK.BSTOR.TESTA.TESTB.KDGT.JUNCT
                                                                                                   WRITE(5) JFLAG.JFLAG.JFLAG.JFLAG.JFLAG.JFLAG.JFLAG
                                                                                                                                                                                                                                                 FORMAT(48X,32H*** TYPE I LISTING CONTINUED ***,/)
                                                                                                                                                                                                                                                                                                                                      RELATED TO
                                                                                                                                                                                                                                                                                                                                      NOTES
                            LBACK = LBACK * (-1)
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                                                                                      JFLAG = 362436
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              LLX = KTES
LTOTAL = 0
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                                                                                                                                             LIMPR = 0
                                                          TESDIF =
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                                                                                                                   REWIND 5
                                           LPZ = 0
                                                                       NNN = 3
                                                                                                                                GC TO 3
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            INTEGER TEST. DIGIT. TESDIF. 4 STOR. BSTOR. TESTA, TESTB, TESTC, TSTOR,
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                                                                                                                           READ(4) LTOTAL. LLX. LBACK. LPZ. TESSIF. NNN. JFLAG. LIMPR.
                                                                                                                                                    ILHOLD,KTES, SWITCH, SPECEK, BSTOR, TESTA, TESTB,KDGT, JUNCT
                                                                                                                                                                                                                                                     LDGT. ASTOR. BSTOR. TESTA, TESTB. TESDIF. SPECEK
                                                                                                  COMMON/A/IFILE.TEST.KPHAS.JIGIT.Ltwit
                                                 DCUBLE PRECISION LTEST(10). LETA(2)
                                                              / (MAS) H8.
                                                                                                                                                                                                                                                                  IF(LDGT.EQ.362436) GO TO 47
                                                                                                                                                                                                                                                                                           41
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                                                                                                                                                                                                                            IF(LPZ.E0.00) GO TO 1
                                    DIMENSION NOTE (5000)
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SUBRCUTINE NOTEC
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                        ISWITCH. SPECEK
                                                             DATA LETA/8H
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                                                                                      CATA JPK/-1/
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IF (NOTE (MD) . GT. 00) GO TO 10 IF(NOTE(MC).NE.00) GO TO IF (NOTE (MD) .NE.00) GO TO IF(NOTE(MB).GT.00) GO TO IF (NOTE(MC).GT.00) GO TO IF(LBACK.EQ.(+1)) GO TO IF(LLX.NE.10) GO TO 13 IF (NOTE (MA) .GT.00) MB = ASTOR + LLL MA = ASTOR + LLL GO TO 3 **= TESTC + LLL** * TESTC + LLL * TESTC + LLL (1-) * 111 = 111 LLD = LLD + INC TIC = TIC + INC 118 = 118 + 1 MA = ASTOR MB = ASTOR ASTOR TESTC INC = (-1) GO TO TESTC TESTC 9 m S σ 10 4 9 ~ œ

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                                                                                                                                                                                                                                                                                                                                                              IF(KLK.EQ.00.AND.KLL.EQ.03)
GO TO 40
                                                                                                                    IF (MD.GT.(MASTB+1)) GO TO 1
                                                                                                                              IF(NCTE(MD).NE.00) GO TO 17
                                                                                                                                                                  ı
                                                                                                                                                                                                                                                                                                          IF (NOTE (LBY).LT.NOTE (LTT))
                                                                                                                                                                                                                                                                                                                    IF (NOTE (LBY). GT. NOTE (LTT))
                                                                                                                                                                                                                                                                                                                              IF (NOTE (LBY). EQ. NOTE (LTT)
                                                                                    IF(NOTE(MB).NE.00) GO TO
                                                                                                                                                               = TESTA
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                    IF (NX.NE.NY) GO TO
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E
          IF(LLX.EQ.10) NY
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                                                                                                                                                                         NY = BSTOR - MB
                                                                                                                                                    NX = TESTB - MD
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                                                               IF (LLX.EQ.10)
E
                                                                          MB = MB + 1
                                                                                                          MD * MD + 1
                                                                                                                                                                                                                                                                          = ASTOR
                                                    = TESTB
                                          MB = BSTOR
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                               CONTINUE
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               GO TO 24
AMBIGUOUS RHYTHM FILTER
                                                                                                                                        IF ( NOTE ( LTT ) . GT . 00 )
                                                                                                                                   LTT = BSTOR +
               IF ( NOTE ( JTT )
          BSTOR
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NDTE(LTTT).E0.00)
NDTE(LTTT).NE.00)
                                                         GO TO (19,40,19,40,19,40,19,40).LITIT
                                                                                                                                                                                                                                    GO TO (19,40.19,40.19,40.19,40), TEST
                                                                                                                                                                                                                                                                                   IF(NOTE(LBX).E0.99999) GO TO
                                                                                                                                                                                                                                                                                                                IF (NOTE (LBX). EQ. 99999) GO IJ
                                                                                                                                                                  MJX = NOTE(LBY) - NOTE(LTI)
                                                                                                                                                                                                       MJO = NOTE(LBY) - NOTE(LTI)
                                                                                                                                                                                                                          IF(TSTOR.GE.19) GO TO 29
                                                                                                                                                                                                                                                               IF(JUNCT.EQ.00) GO TO 43
         IF ( NOTE ( LTT ) . EO. 00. AND.
 IF ( NOTE ( LTT ) . NE . OC. AND.
                                                                                                                                                                                                                 IF(MJO.EQ.MJX) GO TO 36
                                                                                                                                                                                                                                                                         DO 41 LBX = ASTOR.BSTOR
                                                                                                                                                                                                                                                                                                       DO 42 LBX = TESTA, TESTB
                                                                                                                                                        IF(LCFF.E0.1) GO TO 38
                                                                                                        IF(TESDIF.LT.5) GO TO
                                                                                                                                                                                                                                                                                                                                   JTALLY = JTALLY + 1
                                                                                                                                                                                                                                             LIMPR = LIMPR + 1
                                                                                                                                                                                              (I-) * XTE # XTE
                                               LTTTT = TSTOR
                                                                                     TRILL FILTER
                   LLK = LLK +
                                                                                                                  LTT = ASTOR
                                                                                                                                     INDEXE = 2
                                                                                                                           LOFF = 0
                                                                                                                                              GO TO 44
                                                                                                                                                                            LOFF = 1
                            CONTINUE
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SELECTED BIBLIOGRAPHY

SELECTED BIBLIOGRAPHY

Books

- Bailey, Richard W. "Statistics and Style: A Historical Survey."

 Statistics and Style. Edited by Lubomir Dolezel and Richard W.
 Bailey. New York: American Elsevier Publishing Co., Inc., 1969.
- Bartók, Béla. <u>Rumanian Folk Music</u>. Edited by Benjamin Suchoff. 3 vols. The Hague: Martinus Nijhoff, 1967.
- Bowles, Edmund A., ed. Computers in Humanistic Research: Readings and Perspectives. Englewood Cliffs, N.J.: Prentice-Hall, 1967.
- Brook, Barry S., ed. <u>Musicology and the Computer</u>. Greater New York Chapter of the American Musicological Society Symposia Proceedings. New York: City University of New York Press, 1970.
- Eimert, Herbert. <u>Lehrbuch der Zwoelftontechnik</u>. Wiesbaden: Breitkoph and Haertal, 1952.
- Eschman, Karl. Changing Forms in Modern Music. Boston: E.C. Schirmer Music Company, 1945.
- Gould, Murray, and Logemann, George W. An Alphanumeric Language for Music Analysis (ALMA). New York: University Institute for Computer Research in the Humanities, 1966.
- Heckmann, Herald, ed. <u>Elektronische Datenverarbeitung in der Musik</u>-wissenschaft. Regensburg: Gustav Bosse Verlag, 1967.
- Lefkoff, Gerald, ed. <u>Computer Applications in Music</u>. Morgantown, West Virginia: West Virginia University Library, 1967.
- Lemacher, Heinrich, and Schroeder, Hermann. <u>Musical Form</u>. Translated by Robert Kolben. Cologne: Musikverlag Hans Gerig, 1967.
- Lincoln, Harry B., ed. <u>The Computer and Music</u>. Ithaca, New York: Cornell University Press, 1970.
- McHose, Allen I. The Contrapuntal Harmonic Teachnique of the 18th Century. New York: Appleton Century Crofts, Inc., 1947.
- Reti, Rudolph. The Thematic Process in Music. London: Faber and Faber, 1961.
- Schenker, Heinrich. <u>Harmony</u>. Translated by Elizabeth Mann Borgese. Chicago: University of Chicago Press, 1954.

Simon, Herbert A., and Sumner, Richard K. "Pattern in Music." Formal Representation of Human Judgment. Edited by Benjamin Kleinmuntz. New York: John Wiley and Sons, Inc., 1968.

Articles

- Bernstein, Lawrence F., and Olive, Joseph P. "Computers and the 16th-Century Chanson: A Pilot Project at the University of Chicago." Computers and the Humanities, Vol. 3, No. 3 (January, 1969), pp. 153-160.
- "Directory of Scholars Active." <u>Computers and the Humanities</u>, Vol. 1, No. 5 (May, 1967), p. 178f.
- Milic, Louis T. "The Next Step." Computers and the Humanities, Vol. 1, No. 1 (September, 1966), pp. 4-5.
- Morgan, R.S. "Optical Readers." <u>Computers and the Humanities</u>, Vol. 3, No. 1 (September, 1968), pp. 61-62.
- "Music in Machine-Readable Form." <u>Computers and the Humanities</u>, Vol. 6, No. 3 (January, 1972), pp. 176-178.
- Ortmann, Otto. "Interval Frequency as a Determinant of Melodic Style."

 Peabody Bulletin (December, 1937), pp. 1-10.
- Paisley, William J. "Identifying the Unknown Communicator in Painting,
 Literature, and Music: The Significance of Minor Encoding Habits."

 <u>Journal of Communication</u>, Vol. 14, No. 4 (December, 1964),
 pp. 219-237.

Theses

- Curry, Jerry L. "A Computer-aided Analytical Study of Kyries in Selected Masses of Johannes Ockeghem." Unpublished Ph.D. thesis, University of Iowa, 1969.
- Hanson, Jens L. "An Operational Approach to Theory of Rhythm." Unpublished Ph.D. thesis, Yale University, 1969.
- Kostka, Stephan M. "The Hindemith String Quartets: A Computer-Assisted Study of Selected Aspects of Style." Unpublished Ph.D. thesis, University of Wisconsin, 1969.
- Pederson, Donald M. "Some Techniques for Computer-aided Analysis of Musical Scores." Unpublished Ph.D. thesis, University of Iowa, 1968.

- Raskin, Jeffrey F. "A Hardware Independent Computer Drawing System Using List Structured Modeling: The Quick-Draw Graphics System." Unpublished M.S. thesis, Pennsylvania State University, 1967.
- Roller, Gilbert H. "The Development of the Methods for Analysis of Musical Composition and for the Formation of a Symmetrical Twelve-tone Row Using the Electronic Digital Computer."
 Unpublished Ph.D. thesis, Michigan State University, 1964.
- Rubenstein, Nancy O. "A Fortran Computer Program for Transcribing Franconian Rhythm." Unpublished Ph.D. thesis, Washington University, 1969.
- Wilson, Dean C. "An Analytical and Statistical Study of the Harmony in Carl Nielsen's Six Symphonies." Unpublished Ph.D. thesis, Michigan State University, 1967.