

# Biorythms

## General

This program displays the biorythms of the user. The program will request the birthdate and the month to be displayed, Up to 26 Days are displayed at a time, to see the next display use the "→" function.

The seven cycles are displayed separately by pressing their key. On the display up is + down is - and the center line can be brought in or out with it's key. There is also a moveable line to help line up particular days, It is moved with KNC(1) and is on until TR(1) is pulled.

## The Cycles

- \* L - 13 Day - Health and Well Being
- \* S - 18 Day - Sexual Energies
- P - 23 Day - Physical, Strength, Endurance, Energy
- E - 28 Day - Emotions, Nerves, Feelings, Creativity
- I - 33 Day - Intelligence, Memory, Logic, Ambition
- \* C - 38 Day - Precognition, Premonition
- \* H - 43 Day - Natural High Cycle
- \* - Experimental Cycles Developed at NIU.

## keypad

GO	PAUSE	HALT
7	8	9
H	NEW	→
4	5	6
E	I	C
1	Z	3
L	S	P
	∅	
	CLEAR	

## Biorythms Variables

- A - Birth Month
- B - Birth Day
- C - Birth Year
- D - Current Day for Calculation
- I - Index
- J - Line Segment Value, Intermediate Value
- L - Birthdate Normalized
- M - Current Display Month
- N - Normalized Date
- O - Current Month - 1
- P - ~~Current~~ Recycle Threshold
- Q - T Save
- S - Y line value thru sine function
- T - Various Uses
- U - A Y Component
- V - Various Uses
- X - Used in Leap Calculation
- Y - Current Year
- ⓐ(1) - ⓐ(31) - Day count header
- ⓑ(32) - ⓑ(43) - Days in Each Month
- ⓒ(44) - ⓒ(54) - Display Start Value for each cycle
- ⓓ(51) - ⓓ(57) - Sizing Component for each cycle

Line # Statements(s) Comments

```

1  BIORythms 3, 0
2  Msk 1, 1, 1
3  FOR I=1 TO 31: @ (I) = 16:
NEXT I
4  @ (1) = 49: @ (5) = 53: @ (9) = 49: @ (
10) = 48: @ (14) = 49: @ (15) = 53
5  @ (19) = 50: @ (20) = 48: @ (2
9) = 50: @ (25) = 53: @ (29) = 51: @ (
30) = 48
6  FOR I=32 TO 43: @ (I) = 31
NEXT I
7  @ (35) = 30: @ (37) = 30: @ (4
0) = 30: @ (42) = 30: @ (51) = 27: @ (
52) = 20: @
8  @ (53) = 157: @ (54) = 129: @
(55) = 109: @ (56) = 95: @ (57) = 84
9  INPUT "BIRTHDATE=" A;
10 D = B: Y = C
11 Y = C: M = A: D = B: GOSUB 1000: L = N
12 INPUT "START=" M: X
13 D = 1
14 GOSUB 1000
15 N = N - 1
16 GOSUB 700
17 FOR I=44 TO 50
18 J = (I - 43) * 5 + 8
19 Y = N + J: @ (I) = R: M
20 NEXT I
21 V = K: P = 48
22 IF V = 16 GOTO 800
23 IF V = 80 X = 0: Y = 160: Z =
24 GOTO 170
25 IF V = 13 LINE = 80: Y = 9: 4;
26 LINE 79 = 9; 3
27 IF V = 8 GOTO 110
28 IF V = 9 GOTO 600
29 IF (V < 1) + (V > 7) GOTO 170
30 V = @ (50 + V): J = @ (43 + V): P
= V * 5 + 7

```

DO NOT ENTER A SPACE BETWEEN LINE # AND STATEMENT. THIS IS DONE BY THE UNIT MORE LINES OF MULTI-LINE STATEMENTS

Line # Statements(s) Comments

```

1  FOR I=78 TO 78 STEP 6
2  S = T * V ÷ 10
3  Q = T
4  R = 1: IF S > 180 S = S - 180: R = -1
5  IF S > 45 GOTO 300
6  S = 174 * S ÷ 10
7  T = S ÷ 10
8  S = S - T * T ÷ 1000 * T ÷ 6 + T * T ÷
1000 * T ÷ 100 * T ÷ 100 * T ÷ 120
9  GOTO 350
10 S = 90 - S
11 S = 174 * S ÷ 10
12 T = S ÷ 10
13 S = 1000 - T * T ÷ 20 + T * T ÷ 100
14 0 * T ÷ 100 * T ÷ 24
15 S = S - T * T ÷ 1000 * T ÷ 100 * T ÷
1000 * T ÷ 1000 * T ÷ 720
16 S = (S * R + 1000) ÷ 28 - 44
17 J = 1: IF I = 78 J = 4
18 LINE I, S, J
19 J = 0
20 T = T + 1
21 IF T > P T = 0
22 NEXT I
23 GOTO 170
24 D = D + 10: IF DS 15 GOTO 120
25 D = 1: M = M + 1: IF M < 13 GOTO 120
26 M = 1: Y = Y + 1: GOTO 120
27 CLEAR
28 PRINT M, Y, "/ ", #4, Y
29 V = D + 25: IF V > 31 V = 31
30 FOR I = DT0 V: TV = @ (I): NEXT I
31 RETURN
32 V = KNC(1)
33 BOX V, 0, 1, 86, 3
34 BOX V, 0, 1, 86, 3
35 IF TR(1) GOTO 170
36 GOTO 800
37 @ (33) = 28
38 X = 1 + C ÷ 4

```

DO NOT ENTER A SPACE BETWEEN LINE # AND STATEMENT. THIS IS DONE BY THE UNIT MORE LINES OF MULTI-LINE STATEMENTS

Display the cycle  
Sin Computation

First Segment Invisible  
Draw Line Segment  
Increment  
Reset?  
Loop End  
Another Command  
Same Month?  
Next Month?  
New Display  
Top Header  
Header #'s  
Vertical Line  
Displayed  
Via KNC(1)  
Until TR(1)  
Non-Leap Year

```

1020 N=365*(Y-C)
1030 V=Y-1
1040 N=N+1+V/4-X
1050 V=Y/4; IF RM=0 (33) =29
1060 Q=M-1
1070 IF Q=0 GOTO 1090
1080 FOR I=1 TO Q; N=N+(X+I)*3
1090 N=N+D; RETURN

```

Continued

Days for Years

Test for Leap Year  
Set for last full month  
None?

Add Days for  
Each Month

Add Days in cur. month

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