



# DECUS

## PROGRAM LIBRARY

DECUS NO.	8-463
TITLE	PERPETUAL CALENDAR (BASIC VERSION)
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DATE	July 14, 1971
SOURCE LANGUAGE	BASIC

### ATTENTION

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## PERPETUAL CALENDAR (BASIC VERSION)

DECUS Program Library Write-up

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Very often a small computer installation will have an open house. This program is ideal for such purposes. It will provide a fine demonstration for people who know little about computers. One special technique employed in the program is the Time Waster (Ins. 110-120). It is used to increase the effectiveness of the demonstration. The computer will first type out an incorrect answer, and then after a delay of about 4 seconds, will type out the right one. The audience is usually very impressed by this technique. But, so as not to add to the many misconceptions about computers, the operator should explain what actually happened.

The Perpetual Calendar can also be useful to the businessman for finding the day of the week of important business appointments. The mathematical technique used is commonly called Zeller's Congruence.\*

### OPERATING INSTRUCTIONS

1. Load ASCII source tape
2. Type RUN
3. After question mark type - month, day, century, year

Note: Months correspond to the following numbers:

JAN. - 11	JUL. - 5
FEB. - 12	AUG. - 6
MAR. - 1	SEP. - 7
APR. - 2	OCT. - 8
MAY - 3	NOV. - 9
JUN. - 4	DEC. - 10

4. Program will loop back to beginning until manually stopped.

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\*See Fred J. Gruenberger and George Jaffray, Problems for Computer Solution, John Wiley & Sons, Inc., N. Y., 1965, p. 255

LIST

```
10 INPUT M,K,C,D
15 PRINT
20 LET F=2.6*M-0.2
30 LET J=INT(F)
40 LET F=J+K+D+INT(D/4)+INT(C/4)-2*C
60 LET N=N-7
80 IF N>6 THEN 60
85 IF N=0 THEN 100
90 IF N=1 THEN 140
91 IF N=2 THEN 160
92 IF N=3 THEN 180
93 IF N=4 THEN 200
94 IF N=5 THEN 220
95 IF N=6 THEN 240
100 PRINT "THE DAY IS WEDNESDAY"
110 FOR I=1 TO 1000
120 NEXT I
130 PRINT "    .... OOPS SUNDAY"
135 GO TO 999
140 PRINT "THE DAY IS MONDAY"
150 GO TO 999
160 PRINT "THE DAY IS TUESDAY"
170 GO TO 999
180 PRINT "THE DAY IS WEDNESDAY"
190 GO TO 999
200 PRINT "THE DAY IS THURSDAY"
210 GO TO 999
220 PRINT "THE DAY IS FRIDAY"
230 GO TO 999
240 PRINT "THE DAY IS SATURDAY"
999 GO TO 10
1000 END
READY
```

RUN

? 5,26,19,71

THE DAY IS MONDAY

? 10,25,19,71

THE DAY IS SATURDAY

? 5,25,19,71

THE DAY IS WEDNESDAY

.... OOPS SUNDAY

?

STOP