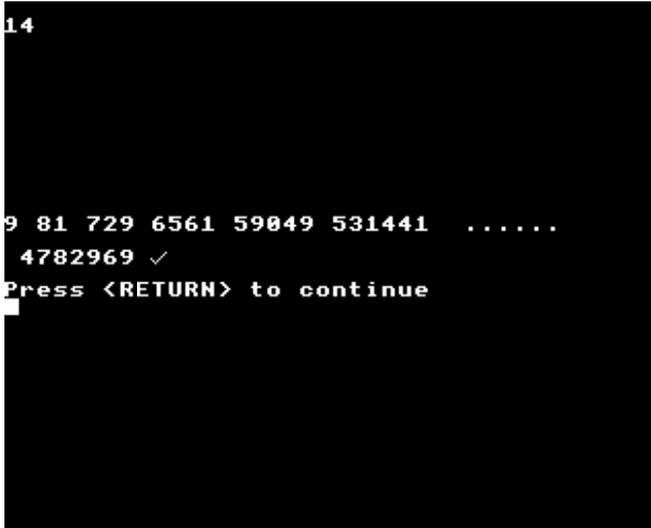


SEQUENCE COUNTDOWN



SIX numbers, or letters will be displayed on the screen and it is up to you to provide the next logical item to complete the series.

How to play

When you have worked out your answer, type in your item and press RETURN.

If you cannot work out the correct answer, then move on as quickly as possible as you only have 200 seconds to complete as many answers as you can.

A wrong answer will bring you the correct result from your computer, and then you will be handed back to the next sequence. If you wish to PASS on a question then type P and RETURN and you will be taken on to the next question.

After 200 seconds your score sheet will be displayed showing the number of sequences tried, correct answers, your time and your IQ level for adaptability.

Programming hints

This program has a useful facility that enables the time to be constantly displayed in seconds. This actually only occurs while the program is waiting for the player to key in something, but as most of any program's time is taken up with waiting, this is all that is required. The lines 330 and 340 perform this function. In line 330 the time is printed out until the first character is keyed in. Then in line 340 subsequent characters are accepted until Return is pressed. The Return key has an ASCII value of 13, so is represented by CHR\$(13).

One change you could make is to add new sequences. To do this, allow W to have a larger maximum value in line 170. The sequence must then be defined after line 210. The sequence is held in S(2), S(3), S(4), S(5), S(6), S(7) and S(8). S(2) is defined in line 150 and is fixed for all sequences. IC is another random value which may be useful when defining a sequence. The message saying how the sequence is created is held in MS\$. If the last number in sequence S(8) is less than 26 then the sequence is converted to letters.

```

10 REM SEQUENCE COUNTDOWN
20 REM COPYRIGHT (C) G.LUDINSKI 1983
30 MODE 4
40 DIM S(8), IP$(255):CLS
50 CLS

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60 VDU23,224,0,1,2,4,136,80,32,0
70 TE=0:CR=0:TIME=0
80 CLS
90 TE=TE+1
100 IF TE=11 OR TIME >= 20000 THEN 510
110 REM
120 REM Work Out Sequence
130 REM
140 S(1)=0
150 S(2)=INT(RND(1)*9+1)
160 IC=INT(RND(1)*9+1)
170 W=INT(RND(1)*3)
180 FOR I=3 TO 8
190 IF W=0 THEN S(I)=2*S(I-1)-S(I-2)
+IC:MS$="The interval increases by "+STR
$(IC)+" each time"
200 IF W=1 THEN S(I)=S(I-1)+S(I-2)+I
C:MS$="Each number is the sum of the pre
vious two plus "+STR$(IC)
210 IF W=2 THEN S(I)=S(2)^(I-1):MS$="
Each number is "+STR$(S(2))+ " to the po
wer of 1,2,3,4,5,6 and 7"
220 NEXT I
230 FOR I=1 TO 13:PRINT:NEXTI
240 REM
250 REM Display Sequence
260 REM
270 IF S(8) >26 THEN PRINTSTR$(S(2));"
";STR$(S(3));" ";STR$(S(4));" ";STR$(S(
5));" ";STR$(S(6));" ";STR$(S(7));" ...
..";:LE=0
280 IF S(8) <=26 THEN LE=1:PRINTCHR$(6
4+S(2));" ";CHR$(64+S(3));" ";CHR$(64+S(
4));" ";CHR$(64+S(5));" ";CHR$(64+S(6));
" ";CHR$(64+S(7));" ..... "
290 REM
300 REM Input Answer
310 REM
320 IX=1
330 IP$(IX)=INKEY$(10):IF IP$(IX)="" T
HEN PRINTTAB(0,1);INT(TIME/100):GOTO330
340 PRINTTAB(IX,15);IP$(IX);:IX=IX+1:I
P$(IX)=GET$:IF IP$(IX) <>CHR$(13) THEN GO
TO 340
350 I$="":FOR I=1 TO IX-1:I$=I$+IP$(I):NE
XT I
360 REM
370 REM Check Answer
380 REM
390 *FX 15,1
400 IF LE=0 AND ABS(VAL(I$) - S(8)) <=
LEN(I$)/2 THEN COLOUR1:PRINT" ";CHR$(12
8):CR=CR+1:COLOUR3:GOTO450
410 IF LE=1 AND (I$=CHR$(64+S(8)) OR I
$=CHR$(65+S(8))) THEN COLOUR1:PRINT" ";C
HR$(128):CR=CR+1:COLOUR3:GOTO450
420 PRINT'"No, the answer="";S(8)
430 IF LE=1 THEN PRINT'"Replace each l
etter by its position number eg. 1 f
or A, 2 for B, etc."
440 PRINT'MS$
450 PRINT'"Press <RETURN> to continue"
460 REPEAT UNTIL GET=13
470 GOTO80
480 REM
490 REM Score Sheet
500 REM
510 CLS
520 PRINT'"Number of sequences complet
ed = ";TE

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```
530 PRINT "Number correct = "; CR
540 PRINT "Time taken = "; INT(TIME/100
); " seconds"
550 IQ=INT(CR*100/5.3)
560 PRINT "Your IQ level (adaptability
) = "; IQ
570 PRINT
580 IF CR >= 7 THEN PRINT "This is clas
sed as SUPERIOR (Upper 10%)":GOTO610
590 IF CR = 6 THEN PRINT "This is class
ed as GOOD (Upper 20%)":GOTO610
600 IF CR = 5 THEN PRINT "This is class
ed as FAIR (Upper 60%)"
610 REM
```