

CONCENTRATION TEST

	1										2										3															
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3			
A	4	1	2	2	8	7	5	0	9	2	2	7	7	8	5	5	4	9	2	2	9	3	7	8	6	9	8	2	7	8	2	5	7	9	A	
B	8	7	5	2	7	1	0	4	5	3	4	1	0	6	2	6	8	7	5	1	5	0	2	5	2	9	1	6	3	3	9	5	9	4	B	
C	2	9	0	6	0	9	5	1	9	0	9	5	9	9	6	1	0	9	9	5	4	3	1	3	1	2	8	4	0	5	0	9	4	7	C	
D	1	6	8	0	0	3	6	2	6	6	6	1	8	2	5	8	0	8	7	0	1	9	7	3	8	1	5	7	6	3	7	9	5	1	D	
E	0	1	8	8	5	1	3	3	9	7	7	2	2	3	1	3	5	0	8	8	2	2	7	1	6	9	2	1	1	3	6	0	2	2	E	
F	7	6	0	1	5	6	6	7	0	6	6	3	0	3	8	6	7	5	0	9	4	0	7	4	5	5	8	3	0	7	9	1	8	9	F	
G	8	5	2	1	6	1	4	6	1	7	9	5	5	6	4	4	1	1	5	8	2	2	7	1	9	2	6	6	2	8	2	4	3	1	G	
H	2	3	5	0	9	4	1	9	2	6	4	7	0	8	3	9	3	8	5	1	0	9	6	9	7	8	5	7	5	8	0	8	1	9	H	
I	4	4	1	9	2	9	6	0	5	4	8	3	5	3	5	9	4	2	9	9	7	5	8	1	6	1	2	8	5	6	9	7	5	0	9	I
J	9	6	0	1	3	7	0	6	9	8	7	3	3	3	9	7	3	3	7	4	1	7	7	1	4	1	6	2	0	3	1	3	5	5	4	J
K	7	3	2	0	4	5	2	3	5	2	2	9	8	8	0	2	6	9	7	8	4	3	3	1	9	6	2	0	7	4	8	4	6	0	2	K
L	4	5	6	1	5	1	9	4	3	0	3	5	0	9	9	2	8	4	4	1	1	7	4	5	8	1	2	0	6	3	7	5	3	5	4	L
M	6	8	8	3	8	2	8	3	8	3	1	7	9	5	6	6	9	4	6	8	8	3	2	4	5	2	4	0	1	8	4	2	6	1	3	M
N	3	6	7	9	0	7	5	3	3	1	7	8	6	5	1	0	6	2	9	1	4	8	1	6	3	7	6	7	2	0	1	7	8	7	5	N
O	7	4	2	2	6	0	5	0	1	5	0	1	5	2	5	4	1	8	6	3	5	8	1	9	0	7	6	1	2	2	9	9	0	5	9	O
P	1	4	3	6	8	6	7	6	8	2	1	5	5	3	4	2	3	2	0	1	0	5	4	0	3	5	9	9	0	7	1	0	4	4	0	P
Q	3	9	6	5	9	6	3	3	1	9	0	6	5	1	5	4	1	2	4	5	2	9	9	0	0	2	4	5	0	8	4	8	5	4	4	Q
R	8	5	6	8	8	4	8	0	1	6	8	3	0	4	9	2	6	0	2	5	0	6	7	6	6	9	8	9	3	4	3	1	3	5	4	R
S	6	4	9	1	3	0	5	0	2	7	9	6	0	3	7	3	4	9	5	9	1	9	4	8	5	9	8	4	0	8	6	2	3	8	6	S
T	6	2	7	5	4	1	6	6	1	1	9	7	6	3	5	4	7	5	9	3	7	5	2	4	5	2	6	2	7	1	5	4	1	9	7	T
U	7	2	8	7	9	3	7	1	5	1	9	9	7	7	6	0	5	2	2	3	9	2	4	5	3	1	0	0	0	3	9	0	0	5	U	
V	8	3	6	3	9	8	7	3	4	6	9	7	6	0	8	7	2	3	9	8	5	8	8	4	9	8	8	0	6	6	9	7	2	9	6	V
W	0	4	7	1	0	7	7	2	5	1	2	7	7	1	6	7	2	8	3	3	9	0	3	9	7	7	1	9	4	9	4	1	3	1	9	W

Type row col. comma row col. so X+Y=10
?

THIS time we have given you a little longer to work out your answer, because we think you'll need all the brainpower at your command.

On the screen will be displayed 23 rows of 35 numbers and you have eight minutes to find as many pairs of adjacent numbers, whose sum is 10, as possible.

These pairs must be in the same row.

How to play

When you have found the matching pairs, key in the row number followed by the column number of each, and then press RETURN. For example A3,A4. Always place a

comma between each entry. If your pair of numbers is correct they will displayed in the same colour on the screen.

You may key in the pairs in any order and, if you cannot find any more 'missing' pairs before your time is up, type in NO,MORE followed by RETURN. Again, there must be a comma between the words.

This ending of the game will cause your score sheet to be displayed. If you fail to complete in the allotted time, the score sheet will automatically appear.

Your score sheet will give a classification and an IQ rating on your powers of concentration.

Programming hints

LINES 100-230 draw out the matrix of numbers and the row and column labels. Note that the letters are displayed in a loop by referring to their ASCII values. As the letter A has ASCII value of 65, B has a value of 66 etc so CHR\$(64+J) where J is 1,2,3 etc. will display the letters A,B,C etc.

I would not advise any alterations as the scoring and IQ levels were determined by scientific testing, and any changes would make the scores and IQ level incorrect.

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10  REM  CONCENTRATION  TESTER
20  REM  COPYRIGHT  (C)  G.LUDINSKI  1983
30  *KEY  10  "OLD|M"
40  MODE  4
50  DIM  A$(35,23)
60  CLS
70  NU=0
80  TIME=0
90  ER=0
100 REM
110 REM  Draw  Matrix
120 REM
130 PRINT
140 PRINT "                      1                      2
150 PRINT "      1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
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```

789012345"
160 FORJ=1TO23
170 PRINT:PRINTCHR$(64+J) " ";
180 FORI=1TO35
190 AS$(I,J)=STR$(INT(RND(1)*10))
200 PRINTA$(I,J);
210 NEXTI
220 PRINT " ";CHR$(64+J);
230 NEXTJ
240 REM
250 REM Question
260 REM
270 PRINT
280 PRINTTAB(0,28)"Type row col. comma
row col. so X+Y=10 ";
290 PRINT:INPUT C$,D$
300 REM
310 REM Check Input
320 REM
330 IF TIME>=48000 THEN GOTO 490
340 IF C$="NO" AND D$="MORE" THEN 490
350 IF LEN(C$)<2 OR LEN(D$)<2 THEN PRO
C_ERROR:GOTO290
360 J=ASC(LEFT$(C$,1))-64
370 I=VAL(MID$(C$,2,LEN(C$)-1))
380 K=ASC(LEFT$(D$,1))-64
390 L=VAL(MID$(D$,2,LEN(D$)-1))
400 IF I<1 OR I>35 OR J<1 OR J>23 OR L
<1 OR L>35 OR K<1 OR K>23 THEN PROC_ERRO
R:GOTO290
410 IF J<>K THEN PROC_ERROR:GOTO290
420 IF VAL(AS$(I,J))+VAL(AS$(L,K)) <> 10
THEN ER=ER+1:PROC_ERROR:GOTO290
430 COLOUR129:COLOUR0:PRINTTAB(I+1,J+3
);AS$(I,J);TAB(L+1,K+3);AS$(L,K);:COLOUR12
8:COLOUR1
440 NU=NU+1
450 PRINTTAB(0,30) " " :VDU11,11,
11,11:GOTO280
460 REM
470 REM Score Sheet
480 REM
490 CLS:PRINT'"You found ";NU;" pairs
"' "Please wait - calculating score shee
t"
500 MAX=0
510 FORJ=1TO23
520 FORI=1TO34
530 IF VAL(AS$(I,J))+VAL(AS$(I+1,J))
=10 THEN MAX=MAX+1
540 NEXTI
550 NEXTJ
560 SCORE=MAX-NU+ER
570 PRINT:PRINT"Your score is ";SCORE:
PRINT
580 AV=MAX * 0.6:IQ=INT((NU/AV)*100)
590 IF IQ>150 THEN IQ=150
600 IF SCORE<0.6*SCORE THEN PRINT"You
are classed as SUPERIOR (Upper 10%):GOT
O640
610 IF SCORE<0.9*SCORE THEN PRINT"You
are classed as GOOD (Upper 30%):GOTO640
620 IF SCORE<1.1*SCORE THEN PRINT"You
are classed as FAIR (Upper 60%)"
630
640 PRINT'"Your IQ level (Concentratio
n) = ";IQ
650 PRINT'"More (Y/N)";
660 INPUT I$
670 IF I$<>"Y" AND I$<>"N" THEN VDU11:

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```
GOTO 660
680 IF I$="Y" THEN 60
690 GOTO 740
700 REM
710 DEFPROC_ERROR
720 VDU 11, 11, 11: PRINT "Error: type row, c
ol. comma row col.so =10";
730 ENDPROC
740 REM END
```