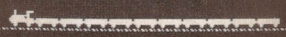


Chaque réponse juste remplit un wagon.
Chaque réponse fautive en fait disparaître un.

SAURAS-TU RAMENER LE CONVOI INTACT ?

Pour continuer il faut toujours appuyer sur une touche.



ALCUL MENTAL

Henri CHAUVET



Vous aimez les trains et le calcul de tête ? Alors Calcul Mental est fait pour vous. Le but du jeu : ramener un convoi intact à la gare. Chaque mauvaise réponse détruit un wagon. Attention ce programme fonctionne uniquement sur 664 et 6128.

```

10 REM---pour changer le temps d'af >JB<
fichage des operations, jouer sur 1
a valeur de "at" a la ligne 390
20 ENV 1,15,1,1,15,-1,1:ENT -1,2,1 >HC<
1,2,-1,1
30 ENV 2,15,-1,10:ENT -2,60,-2,2 >GD<
40 CLS:GOSUB 1970 >ME<
50 GOSUB 2170 >XF<
60 DEF FN deek(x)=PEEK(x)+256*PEEK(x) >MG<
x+1):REM---redefinition des caracte
res
70 REM----- >MH<
80 REM---initialisations--- >UJ<
90 REM----- >PK<
100 RANDOMIZE TIME/1000 >NB<
110 INK 0,1:INK 1,25:INK 2,20:INK 3 >ZC<
,19
120 m=0:xt=3:yt=22:xtf=36:x=21:y=3: >AD<
j=0:i=0
130 WINDOW #1,1,40,1,18:WINDOW #2,1 >KE<
,40,19,25
140 PEN 3:LOCATE xt,yt:PRINT tr# >TF<
150 MASK 100,1:PLOT 1,28,2:DRAWR 63 >NG<
9,0:PLOTR -5,-2:DRAWR -633,0
160 IF partie=0 THEN 250 >AH<
170 REM----- >MJ<
180 REM---choix de l'epreuve--- >FK<
190 REM----- >PL<
200 PEN 1:LOCATE 10,2:PRINT"Chaque >PC<
r"+CHR$(212)+"ponse juste":LOCATE 1
1,3:PRINT"remplit un wagon."
210 LOCATE 10,5:PRINT"Chaque r"+CHR >XD<
$(212)+"ponse fautive":LOCATE 9,6:PR
INT"en fait dispara"+CHR$(215)+"tre
un."
220 PEN 2:LOCATE 3,9:PRINT"SAURAS-T >JE<
U RAMENER LE CONVOI INTACT ?"
230 PEN 1:LOCATE 13,15:PRINT"Pour c >TF<

```

```

continuer":LOCATE 4,16:PRINT"il faut
toujours appuyer sur une touche."
240 CALL @B06:CLS#1 >TB<
250 PEN 3:LOCATE 1,10:PRINT"Quelle >BK<
op"+CHR$(212)+"ration choisit-tu ?"
260 PEN 1:PRINT:PRINT"1 ";PEN 2:PR >KJ<
INT"addition":PEN 1:PRINT"2 ";PEN
2:PRINT"soustraction":PEN 1:PRINT"3
";PEN 2:PRINT"multiplication":PEN
1:PRINT"4 ";PEN 2:PRINT"division"
:PEN 1
270 CLEAR INPUT >RK<
280 OP#=INKEY$ >CL<
290 IF OP#="" OR INSTR("1234",OP#)= >TK<
0 THEN 290
300 CLS#1 >XD<
310 LOCATE 5,5:PRINT"L op"+CHR$(212 >XE<
)+r"ation ne reste affich"+CHR$(212
)+*e":LOCATE 9,6:PRINT"que quelques
instants."
320 LOCATE 8,8:PRINT"Tu ne dois pas >XF<
r"+CHR$(212)+"pondre":LOCATE 7,9:P
RINT"avant qu'elle ne s'efface."
330 PEN 3:LOCATE 1,13:PRINT"Quel ni >MG<
veau choisit-tu ?"
340 PEN 1:PRINT:PRINT"1 ";PEN 2:PR >FK<
INT"champion":PEN 1:PRINT"2 ";PEN
2:PRINT"entra"+CHR$(215)+"n"+CHR$(12
12):PEN 1:PRINT"3 ";PEN 2:PRINT"d"
+CHR$(212)+"butant"
350 CLEAR INPUT >QJ<
360 ni#=INKEY$ >TK<
370 IF ni#="" OR INSTR("123",ni#)=0 >RL<
THEN 360
380 at=2000*VAL(ni#) >RM<
390 ON VAL(OP#) GOSUB 420,590,770,9 >AN<
40
400 GOSUB 1750 >BE<

```

```

410 REM----- >VF<
420 REM---addition--- >UG<
430 REM----- >XH<
440 FOR nq=1 TO 10 >RJ<
450 CLS#1:PEN 1 >RK<
460 a=INT(RND*98)+2:IF aa=a THEN 46 >KL<
0 ELSE aa=a
470 a#=#MID$(STR$(a),2) >EK<
480 b=INT(RND*98)+2:IF bb=b THEN 48 >XN<
0 ELSE bb=b
490 b#=#MID$(STR$(b),2) >JP<
500 xx=x-LEN(a#):yy=y:x#=#GOSUB 2 >CF<
480
510 xx=x-LEN(b#):yy=y+3:x#=#GOSUB >HG<
2480
520 xx=x-LEN(b#)-2:yy=y+3:x#=#+":60 >XH<
SUB 2480
530 LOCATE xx,yy+2:FOR trait=1 TO L >CJ<
EN(b#)+2:PRINT CHR$(154):NEXT trai
t
540 so=a+1:so#=#MID$(STR$(so),2) >HK<
550 GOSUB 1130 >ZL<
560 NEXT nq
570 RETURN >RN<
580 REM----- >YP<
590 REM---soustraction--- >MQ<
600 REM----- >QG<
610 FOR nq=1 TO 10 >QH<
620 CLS#1:PEN 1 >QJ<
630 a=INT(RND*(89))+10:IF aa=a THEN >XK<
630 ELSE aa=a
640 a#=#MID$(STR$(a),2) >DL<
650 b=INT(RND*98)+2:IF bb=b THEN >VM<
0 ELSE bb=b
660 IF b>a THEN 650 >HN<
670 b#=#MID$(STR$(b),2) >JP<
680 xx=x-LEN(a#):yy=y:x#=#GOSUB 2 >MQ<
480

```

```

690 xx=x-LEN(b$):yy=y+3;x#b$:GOSUB >TR< 1100 REM-correction de +, - et * - >M< 1480 FOR w=1 TO 400:NEXT w:LOCATE 1 >LP<
2480 >GD< ,16:PRINT CHR$(18)
700 xx=x-LEN(b$)-2:yy=y+3;x#="" :60 >ZH< 1110 REM----- >LE< 1490 INK 1,25 >HQ<
SUB 2480 >AF< 1120 REM >LE< 1500 xx=x+1:yy=y+3;x#=$:GOSUB 248 >ZB<
710 LOCATE xx,yy+2:FOR trait=1 TO L >CJ< EN 2 >FHC
EN(b$)+2:PRINT CHR$(154):NEXT trai >V6< 1510 d1=(so\10)*10 >FHC
? >BJ< 1520 d2=a-d1*b >BJ<
720 so=a-b:so#MID$(STR$(so),2):IF >ZK< 1530 IF d2<10 THEN d2#=""*MID$(STR >AK<
so<10 THEN so#=""*so# >AK< $(d2),2) ELSE d2#MID$(STR$(d2),2)
730 GOSUB 1130 >ZL< 1540 r#a-so#b:r#MID$(STR$(r),2) >ZL<
740 NEXT nq >NM< 1550 PEN 3 >YM<
750 RETURN >RN< 1560 IF a>10*b THEN 1570 ELSE 1590 >NM<
760 REM----- >XP< 1570 xx=x-LEN(d2$)-2:yy=y+3;x#=#d2# >JP<
770 REM---multiplication--- >BQ< 60SUB 2480
780 REM----- >ZK< 1580 xx=x-LEN(r$)-2:yy=y+5;x#=#:60 >DQ<
790 FOR nq=1 TO 10 >AT< SUB 2480:GOTO 1600
800 CLS#1:PEN 1 >QJ< 1590 xx=x-LEN(r$)-2:yy=y+3;x#=#:60 >HR<
810 a=INT(RND*89)+10:IF aa=a THEN 0 >JK< SUB 2480
10 ELSE aa= >BF< 1600 PEN 2 >TH<
820 a#MID$(STR$(a),2) >DL< 1610 IF re=so THEN 1620 ELSE 1660 >YJ<
830 b=INT(RND*B)+2:IF bb=b THEN 830 >HM< 1620 LOCATE 1,18:PRINT"JUSTE." >KK<
ELSE bb=b >CL< 1630 j=j+1:xt=xt+3 >CL<
840 b#MID$(STR$(b),2) >HN< 1640 CLEAR INPUT:FOR k=1 TO 5000:IF >LM<
850 xx=x-LEN(a$):yy=y;x#a$:GOSUB 2 >LP< INKEY#<>"" THEN 1650 ELSE NEXT k >KK<
480 >CL< 1650 SOUND 1,100,0,0,2:LOCATE xt,yt >ZK<
860 xx=x-LEN(b$):yy=y+3;x#=#:GOSUB >RQ< :PRINT wp$:RETURN
870 xx=x-LEN(b$)-2:yy=y+3;x#=#"X":60 >ER< 1660 LOCATE 1,16:PRINT"Faux." >TP<
SUB 2480 >TR< 1670 IF re=0 THEN PRINT:PRINT"Tu n' >KQ<
880 LOCATE xx,yy+2:FOR trait=1 TO L >LT< avais rien r"+CHR$(212)+"poudu !":6 >G
EN(b$)+2:PRINT CHR$(154):NEXT trai >QF< 070 1690
890 >YE< 1680 PRINT:PRINT"Tu avais r"+CHR$(2 >YR<
t >QF< 12)+"poudu":PEN 1:PRINT re:PEN 2
900 so=a#b:so#MID$(STR$(so),2) >QU< 1690 f=f+1:xtf=xtf-3 >ET<
910 GOSUB 1130 >YK< 1700 CLEAR INPUT:FOR k=1 TO 5000:IF >EJ<
920 NEXT nq >ML< INKEY#<>"" THEN 1710 ELSE NEXT k >EJ<
930 RETURN >CN< 1710 SOUND 1,100,50,15,2,2:FOR c1=1 >AK<
940 REM---division--- >DP< 30:LOCATE xtf,yt+1:PEN -3:(c1 M >AK<
950 REM----- >OQ< OD 2=0):PRINT w$:NEXT:LOCATE xtf,y >AK<
960 FOR nq=1 TO 10 >ZT< t:PRINT ef$:RETURN
970 CLS#1:PEN 1 >ZK< 1360 REM----- >PL<
980 a=INT(RND*89)+10:IF aa=a THEN 8 >TU< 1370 REM-correction de la division >NM<
10 ELSE aa= >RN< 1380 REM----- >RN<
990 a#MID$(STR$(a),2) >MY< 1390 FOR w=1 TO at:NEXT w:INK 1,1:P >JP<
1000 b=INT(RND*B)+2:IF bb=b THEN 10 >QB< EN 2 >NR<
00 ELSE bb=b >ZC< 1400 LOCATE 1,16:PRINT"Quelle est t >VF<
1010 b#MID$(STR$(b),2) >ZC< a "+CHR$(212)+"ponse ? ":PEN 3 >VF<
1020 xx=x-LEN(a$)-2:yy=y;x#a$:GOSU >FD< 1410 CLEAR INPUT:INPUT"",re$ >NG<
B 2480 >RN< 1420 FOR ct=1 TO LEN(re$) >MH<
1030 xx=x+1:yy=y;x#=#:GOSUB 2480 >QE< 1430 IF ASC(MID$(re$,ct,1))<47 OR A >JJ<
1040 FOR trait=1 TO 7:LOCATE xx-2,y >XF< SC(MID$(re$,ct,1))>57 THEN 1440 ELS >JJ<
+trait-1:PRINT CHR$(149):NEXT trait >ZL< E 1450 >YK<
:LOCATE xx-2,y+2:PRINT CHR$(151)+CH >ZK< 1440 PRINT CHR$(7):LOCATE 25,16:PRI >YK<
R$(154)+CHR$(154)+CHR$(152) >ZK< NT CHR$(18):LOCATE 25,16:GOTO 1410 >YK<
1050 so=a#b:so#MID$(STR$(so),2) >KB< 1450 NEXT >RL<
1060 GOSUB 1390 >BH< 1460 re=VAL(re$) >PM<
1070 NEXT nq >MJ< 1470 PEN 2 >YN<
1080 RETURN >QK<
1090 REM----- >PL<

```

```

N";PEN 2:PRINT"ationale":LOCATE 18
,12:PRINT"des":PEN 1:LOCATE 7,13:PR
INT"C";PEN 2:PRINT"alculateurs":
PEN 1:PRINT"F";PEN 2:PRINT"antasti
ques)"
1830 LOCATE 5,15:PRINT"t'embauchera >EN<
d"+CHR$(213)+"s que tu voudras.":6
OSUB 1930:GOTO 1890
1840 IF #=1 THEN 1850 ELSE IF #=10 >P<
THEN 1860 ELSE 1870
1850 PEN 2:LOCATE 15,6:PRINT"Pas ma >DQ<
1 !":PRINT:PRINT" Il manque tout de
a"+CHR$(214)+"me un petit wagon.":
LOCATE 7,10:PRINT"Tu es certainement
t capable":LOCATE 7,11:PRINT"de ram
ener tout le convoi.":GOSUB 1930:GO
TO 1890
1860 PRINT" Mes pauvres petits w >ER<
agons !!!!!":GOTO 1880
1870 PRINT" D"+CHR$(212)+"sol" >UT<
+CHR$(212)+" , il manque";f;"wagons.
"
1880 FOR w#1 TO 3000:NEXT w >LU<
1890 CLEAR INPUT:LOCATE 8,10:PRINT" >WV<
Vieux: tu rejouer (0/N)? ";
1900 IF INKEY(34)=0 THEN PRINT"O":F >ZL<
OR w#1 TO 200:NEXT w:CLS:CLEAR INPU
T:partie+atie:1:GOTO 120
1910 IF INKEY(46)=0 THEN PRINT"N":G >LM<
OTO 1920 ELSE 1890
1920 FOR w#1 TO 1000:NEXT w:CLS:CAL >YN<
L &BC02:END
1930 PEN 1:LOCATE 1,19:PRINT" Appui >JP<
e sur une touche pour continuer. "
:PEN 2
1940 CALL &B06 >DQ<
1950 CLS:RETURN >FR<
1960 REM----- >WT<
1970 REM---page de presentation--- >GU<
1980 REM----- >VW<
1990 MODE 0:ti$="CALCUL MENTAL" >AW<
2000 INK 1,17:INK 2,15:INK 3,19:INK >PC<
4,11
2010 FOR ti=1 TO 14 >QD<
2020 lti$=MID$(ti$,ti,1) >QE<
2030 IF lti$=" " THEN 2110 >VF<
2040 FOR chu#1 TO 15 >TB<
2050 PEN ti MOD 4+1 >JK<
2060 LOCATE 3+ti,chu:PRINT lti$ >XJ<
2070 no=400-12*ti-12*chu:SOUND 1,no >VK<
,8,10:SOUND 2,no*0.5,8,8
2080 LOCATE 3+ti,chu:PRINT" " >FL<
2090 NEXT chu >LM<
2100 LOCATE 3+ti,chu:PRINT lti$ >RD<
2110 NEXT ti >FE<
2120 FOR w#1 TO 300:NEXT >BF<
2130 SPEED INK 3,3:BORDER 7,11:ENV >DB<
2,15,-1,15:SOUND 1,0,400,15,2,0,30:
OUT 255,8:OUT 256,1:FOR w#1 TO 2000
:NEXT w:OUT 256,0
2140 BORDER 6:MODE 1:FOR w#1 TO 100 >VH<
0:NEXT
2150 RETURN >PJ<
2160 REM----- >NK<
2170 REM redefinition caracteres >ML<
2180 REM----- >OM<
2190 SYMBOL AFTER 0 >MN<
2200 SYMBOL 200,6,6,6,6,6,31,63,127 >ZE<
2210 SYMBOL 201,0,0,0,0,0,255,254,2 >KF<
54
2220 SYMBOL 202,0,127,127,112,112,2 >NG<
40,112,112
2230 SYMBOL 203,255,255,255,127,63, >TH<
15,15,6
2240 SYMBOL 204,255,255,255,0,0 >LJ<
,0
2250 SYMBOL 205,127,255,255,255,255 >JK<
,120,120,48
2260 lo$=CHR$(200)+CHR$(201)+CHR$(2 >VL<
02)+CHR$(10)+CHR$(8)+CHR$(8)+CHR$(8
)+CHR$(203)+CHR$(204)+CHR$(205)
2270 SYMBOL 206,63,63,255,255,63,15 >RM<
,15,6
2280 SYMBOL 207,255,255,255,255,255 >LN<
,0,0,0
2290 SYMBOL 208,255,255,255,255,255 >PP<
,60,60,24
2300 wv$=CHR$(206)+CHR$(207)+CHR$(2 >DF<
00)
2310 SYMBOL 209,0,0,0,0,3,14,51,63 >BB<
2320 SYMBOL 210,0,28,51,255,204,127 >FH<
,204,255
2330 SYMBOL 211,0,0,0,192,240,156,2 >RJ<
43,255
2340 wv$=CHR$(209)+CHR$(210)+CHR$(2 >QK<
11)
2350 e$=CHR$(10)+" " >VL<
2360 FOR i=1 TO 10:w$=w$+wv$:NEXT i >NM<
2370 tr$=lo$+w$ >WN<
2380 REM---accents--- >XP<
2390 SYMBOL 212,12,24,60,102,126,96 >UG<
,60
2400 SYMBOL 213,48,24,60,102,126,96 >WG<
,60
2410 SYMBOL 214,24,36,60,102,126,96 >VH<
,60
2420 SYMBOL 215,24,36,56,24,24,6 >NJ<
0
2430 REM---funee--- >MK<
2440 SYMBOL 216,0,0,0,3,3 >DL<
2450 SYMBOL 217,0,0,24,60,60,24 >JM<
2460 SYMBOL 218,0,24,60,126,126,60, >PN<
24
2470 RETURN >VF<
2480 REM----- >AQ<
2490 REM---double hauteur--- >MR<
2500 REM----- >TH<
2510 RESTORE 2610 >GJ<
2520 d$=STRING$(81,32):d$="" >AK<
2530 FOR i=0 TO 80 >JL<
2540 READ j:d$=d$+CHR$(j) >MM<
2550 NEXT i >YN<
2560 d=FNDEEK(8d$+1) >AP<
2570 LOCATE xx,y >KQ<
2580 FOR i=1 TO LEN(x$) >TR<
2590 POKE d+1,ASC(MID$(x$,i,1)) >BT<
2600 CALL d:NEXT i >PJ<
2610 DATA &3e,&6e,&cd,&a5,&bb,&16,& >MK<
fe,&3e,&19
2620 DATA &cd,&5a,&bb,&7a,&cd,&5a,& >HL<
bb,&0e,&04,&7e
2630 DATA &cd,&5a,&bb,&cd,&5a,&bb,& >JM<
23,&0d,&20,&20,&ff
2640 DATA &14,&420,&e7,&3e,&fe,&cd,& >BN<
5a,&bb,&3e,&0a
2650 DATA &cd,&5a,&bb,&3e,&08,&cd,& >LP<
5a,&bb,&3e,&ff
2660 DATA &cd,&5a,&bb,&3e,&0b,&cd,& >DQ<
5a,&bb,&3e,&9,5a
2670 DATA &bb,&3e,&0a,&cd,&5a,&bb,& >JR<
3e,&08,&cd,&5a
2680 DATA &bb,&3e,&ff,&cd,&5a,&bb,& >AT<
3e,&0b,&cd,&0a
2690 DATA &bb,&3e9 >TU<
2700 RETURN >QK<
2710 REM----- >VL<
2720 REM---depart du train--- >FK<
2730 REM----- >XN<
2740 tr$="" :w$="" :FOR i=1 TO j >GP<
2750 w$=w$+CHR$(15)+"C"+wv$+CHR$(11 >AQ<
)+CHR$(8)+CHR$(8)+CHR$(8)+CHR$(15)+
"B"+wv$+CHR$(10)
2760 NEXT >XR<
2770 llo$=CHR$(15)+"C"+lo$ >JT<
2780 PEN 1:tr$=llo$+w$+CHR$(32)+CH >BU<
R$(11)+CHR$(8)+CHR$(32)
2790 CLS2:xt=35-j >AV<
2800 FOR i=36-j#3 TO 1 TO STEP -1 >ML<
2810 LOCATE i,yt:PRINT tr$ >VM<
2820 PEN 1 >XN<
2830 LOCATE i,21:PRINT CHR$(216);:6 >WP<
OSUB 2860:LOCATE i+1,20:PRINT CHR$(
217);:GOSUB 2860:LOCATE i+2,19:PRIN
T CHR$(218);:GOSUB 2860
2840 NEXT >WQ<
2850 RETURN >XR<
2860 IF i=1 THEN 2910 >GT<
2870 SOUND 1,4000,0,0,1,15 >EU<
2880 IF #=100 THEN #=50 ELSE #=100 >LV<
2890 IF #>10 THEN #=0 >EW<
2900 #=#+1:MASK a,0:PLOT 1,28:DRAMR >RM<
639,0:PLOT -5*#(=#10),-2:DRAMR -
633,0
2910 PRINT CHR$(8)+CHR$(32) >FN<
2920 RETURN >VP<

```