

```

10 REM=====A.D.N=====
20 CLS: REM EFFACE ECRAN
30 DATA -1,-1,0,-1,1,-1,-1,0
40 DATA 1,0,-1,1,0,1,1,1
50 P$=CHR$(233): REM ou P$="D"
60 DIM A(10),V(40,40),C(40,40),NV(40,40),MV(40,40),H(24)
70 DZ=INT(RND(1)*15)+15
80 GOTO 250
90 REM=====ROUTINE MUTATION=====
100 CG$="": FOR I = 1 TO 4
110 X=INT(RND(1)*10)
120 IF A(X)=1 THEN I10
130 IF X=0 THEN I10
140 C$(I)=RIGHT$(STR$(X),1): A(X)=1
150 CG$=CG$+C$(I)
160 FOR W= 1 TO 3

```

```

790 IF IJ=PC THEN SF=1
800 IF IJ<>PC THEN SF=0
810 PC=IJ
820 ES$=STR$(IJ): FOR I=1 TO 4
830 E$(I)=MID$(ES$,I+1,1)
840 NEXT I
850 LOCATE 3,1: PRINT"A-Z, K-L, I...."
.....
860 PX=5: PY=5: LOCATE PX,PY: PRINT"D"
870 A$=INKEY$: IF A$="" THEN 870
880 IF V(PX,PY)=0 THEN LOCATE PX,PY: P
RINT" "
890 IF V(PX,PY)=1 THEN LOCATE PX,PY: P
RINT CHR$(233)
900 IF A$="A" THEN PY=PY-1: GOTO 960
910 IF A$="Z" THEN PY=PY+1: GOTO 960
920 IF A$="K" THEN PX=PX-1: GOTO 960

```

```

170 LOCATE 3,1: PRINT"Mutation....."
.....
180 LOCATE 3,1: PRINT"....."
.....
190 SD=INT(RND(1)*8)+60
200 SOUND 1,SD,10,10,1,1
210 NEXT W
220 NEXT I: CG=VAL(CG$)
230 FOR X= 1 TO 9: A(X)=0: NEXT X
240 RETURN
250 REM---dessin cadre---
260 FOR X2= 3 TO 35: LOCATE X2,3: PRIN
T"-": LOCATE X2,21: PRINT"-": NEXT X2
270 FOR Y2= 4 TO 20: LOCATE 3,Y2: PRIN
T"1": LOCATE 36,Y2: PRINT"1": NEXT Y2
280 LOCATE 3,3: PRINT"+": LOCATE 36,3:
PRINT"+
290 LOCATE 3,21: PRINT"+": LOCATE 36,2
1: PRINT"+
300 REM---mise en place cellules---
310 GOSUB 90
320 FOR N=1 TO 40
330 LOCATE 3,24: PRINT"NB="N
340 X=INT(RND(1)*20)+10
350 Y=INT(RND(1)*8)+8
360 IF V(X,Y)=1 THEN 340
370 V(X,Y)=1: H(Y)=1: LOCATE X,Y: PRIN
T P$
380 C(X,Y)=CG
390 NEXT N
400 REM---TOUR DE JEU---
410 REM---REPRODUCTION---
420 LOCATE 3,1: PRINT"REPRODUCTION...."
.....
430 FOR I=4 TO 19: IF H(I)=1 THEN D=I-
1: GOTO 450
440 NEXT I
450 FOR Y= D TO 19: FOR X=4 TO 34
460 IF V(X,Y)=1 THEN 510
470 RESTORE: FOR W= 1 TO 8: READ A,B
480 IF V(X+A,Y+B)=1 THEN SV=SV+1
490 NEXT W
500 IF SV=3 THEN : LOCATE X,Y: PRINT C
HR$(224): SOUND 1,12,6,12,1,1: SOUND 1
,28,8,1,1: NV(X,Y)=1: C(X,Y)=CG
510 SV=0: NEXT X,Y
520 LOCATE 3,1: PRINT"MEMOIRE....."
...:FRE(0)
530 FOR U = 1 TO 2000: NEXT U
540 REM ---CONFIRMATION---
550 LOCATE 3,1: PRINT"OK....."
.....
560 FOR Y=4 TO 19: FOR X=4 TO 35
570 IF NV(X,Y)=1 THEN MV(X,Y)=0: V(X,Y
)=1: H(Y)=1: C(X,Y)=CG: LOCATE X,Y: PR
INT P$
580 NEXT X,Y
590 REM ---MORTALITE-----
600 LOCATE 3,1: PRINT"MORTALITE....."
.....
610 FOR Y=4 TO 20: FOR X= 4 TO 35
620 IF V(X,Y)=0 THEN 670
630 RESTORE: FOR W= 1 TO 8: READ A,B
640 IF V(X+A,Y+B)=1 THEN SV=SV+1
650 NEXT W
660 IF SV<2 OR SV>5 THEN MV(X,Y)=1: LO
CATE X,Y: PRINT CHR$(225)
670 SV=0: NEXT X,Y
680 REM---CONFIRMATION---
690 FOR Y=4 TO 19: FOR X= 4 TO 34
700 IF MV(X,Y)=1 THEN MV(X,Y)=0: V(X,Y
)=0: C(X,Y)=0: SOUND 1,800,8,15,1,1: S
OUND 1,2500,8,15,1,1: LOCATE X,Y: PRIN
T" "
710 NEXT X,Y
720 REM---NOMBRE DE CELLULES---
730 NT=0: FOR Y=4 TO 19: FOR X=4 TO 34
740 IF V(X,Y)=1 THEN NT=NT+1
750 NEXT X,Y: LOCATE 3,24: PRINT"NB="N
T
760 IF NT>200 THEN LOCATE 3,1: PRINT"!
!! DESOLE, LE VIRUS A GAGNE !!!": END
770 REM---LABORATOIRE-----
780 LOCATE 3,1: INPUT"CODE INJECTION:"
: IJ

```

```

930 IF A$="L" THEN PX=PX+1: GOTO 960
940 IF A$="I" THEN 1050
950 GOTO 870
960 IF PX<4 THEN PX=4: GOTO 870
970 IF PX>34 THEN PX=34: GOTO 870
980 IF PY<4 THEN PY=4: GOTO 870
990 IF PY>20 THEN PY=20: GOTO 870
1000 LOCATE PX,PY: PRINT CHR$(230)
1010 LOCATE 3,22: PRINT"X="PX:"/"PY:"
CELLULE TYPE="INT(C(PX,PY)/DZ)
1020 GOTO 870
1030 REM---ROUTINE VIBRATION-----
1040 FOR Z= 1 TO 80: NEXT Z: FOR I = 1
TO 50: LOCATE PX,PY: PRINT CHR$(224):
LOCATE PX,PY: PRINT CHR$(233): NEXT I
: RETURN
1050 REM---INJECTION---
1060 IF V(PX,PY)=0 THEN LOCATE 3,22: P
RINT"...RIEN EN "PX:"/"PY: GOTO 870
1070 CH=C(PX,PY): CG$=STR$(CH)
1080 FOR I = 1 TO 4: C$(I)=MID$(CG$,I+
1,1): NEXT I
1090 GOSUB 1040
1100 REM ---ANALYSE EFFET-----
1110 EX=0: BP=0
1120 REM---BON CODE!-----
1130 IF CH=IJ THEN LOCATE 3,1: PRINT"*
** CODE DECOUVERT ***": GOTO 1330
1140 REM===RECH. BIEN PLACES===
1150 FOR I= 1 TO 4
1160 IF C$(I)=E$(I) THEN BP=BP+1
1170 LOCATE 3,23: PRINT"EXISTE="EX:" B
IEN PLACES="BP
1180 NEXT I
1190 REM===RECH. EXISTENT===
1200 FOR I = 1 TO 4: FOR J=1 TO 4
1210 IF C$(I)=E$(J) THEN EX=EX+1
1220 LOCATE 3,23: PRINT"EXISTE="EX:" B
IEN PLACES="BP
1230 NEXT J,I
1240 REM===ROUTINES EFFETS===
1250 ON EX GOTO 400,400,400,1280
1260 GOSUB 1040: GOTO 400
1270 REM ---CELLULE TUEE---
1280 V(PX,PY)=0: C(PX,PY)=0: LOCATE PX
,PY: PRINT"*": GOSUB 1040: GOTO 1290
1290 REM==EFFETS DS LES BP==
1300 ON BP GOTO 1320,1320,1320
1310 V(PX,PY)=0: LOCATE PX,PY: PRINT"*
":GOSUB 1040: LOCATE PX,PY: PRINT" ":
GOTO 400
1320 V(PX,PY)=0: LOCATE PX,PY: PRINT"&
": GOSUB 1040: LOCATE PX,PY: PRINT"."":
GOTO 400
1330 REM=====EFFET MAXI=====
1340 RESTORE
1350 C(PX,PY)=0: V(PX,PY)=0: LOCATE PX
,PY: PRINT" ": FOR Q=1 TO 10: SOUND 1
,25,10,10,1,1: SOUND 1,80,10,1,1: NEXT
Q
1360 FOR N=1 TO 10
1370 FOR W= 1 TO 8: READ A,B
1380 DX=PX+(N*A): DY=PY+(N*B)
1390 IF DX<5 THEN DX=5
1400 IF DX>34 THEN DX=34
1410 IF DY<4 THEN DY=4
1420 IF DY>19 THEN DY=19
1430 IF C(DX,DY)=IJ THEN C(DX,DY)=0: V
(DX,DY)=0: SOUND 1,2000,8,12,1,1: LOCA
TE DX,DY: PRINT CHR$(225)
1440 NEXT W: RESTORE: NEXT N
1450 FOR Y=4 TO 20: FOR X=4 TO 34
1460 IF C(X,Y)=0 THEN LOCATE X,Y: PRIN
T" "
1470 NEXT X,Y
1480 IF SF=1 THEN 410
1490 GOSUB 100
1500 GOTO 410

```