

```

10 REM *****
20 REM *      DEF. DU CAR. DE LA GRILLE      *
30 REM *****
40 SYMBOL AFTER 254
50 SYMBOL 255,255,129,129,129,129,129,129,255
60 CLS:MODE 2:CLEAR
70 REM *****
80 REM *      INITIALISATION DES VARIABLES      *
90 REM *****
100 LET AP=0
110 LET AV=0
120 LET AD=0
130 LET MP=0
140 LET MV=0
150 LET MD=0
160 LET FP=0
170 LET FV=0
180 LET FD=0
190 LET UP=1
200 REM *****
210 REM *      AFFICHAGE DE LA GRILLE      *
220 REM *****
230 FOR V=1 TO 15
240 FOR H=1 TO 50
250 LOCATE H,V: PRINT CHR$(255)
260 NEXT H
270 NEXT V
280 REM *****
290 REM *      CHOIX DE L'AXE DES TEMPS      *
300 REM *****
310 LOCATE 1,20: INPUT "DUREE TOTALE DE LA NOTE EN SECONDES ";D
320 LET DD=2*D
330 LOCATE 1,20:PRINT"
"
340 IF DD<1 THEN GOTO 310
350 LOCATE 55,1:PRINT "DUREE PAR DIVISION:"
360 LOCATE 55,2:PRINT DD;"CENTIEMES DE SECONDE"
370 LOCATE 55,5:PRINT "UTILISER LES FLECHES "
380 LOCATE 55,6:PRINT "POUR DEPLACER LE CURSEUR."
390 LOCATE 55,7:PRINT "VALIDEZ VOS POINTS"
400 LOCATE 55,8:PRINT "EN TAPANT ENTER."
410 LOCATE 55,12:PRINT "DUREE TOTALE DE"
420 LOCATE 55,13:PRINT "L'ECRAN: ";D;"SECONDES."
430 REM *****
440 REM *      DETERMINATION DE L'ATTAQUE      *
450 REM *****
460 LET HC=1:LET VC=1
470 GOSUB 1360
480 IF VC>=HC THEN LET AP=HC:LET AV=INT(VC/HC):LET AD=DD
490 IF VC<HC THEN LET AP=VC:LET AV=1:LET AD=DD*INT(HC/VC)
500 LOCATE HC,16-VC:PRINT CHR$(255)
510 LOCATE (AP*AD)/DD,16-(AV*AP):PRINT CHR$(233)
520 REM *****
530 REM *      TRACE DES POINTS      *
540 REM *****
550 FOR I=1 TO AP*(AD/DD)
560 FOR J=1 TO AV
570 LOCATE I,16-(J+INT(AV*(DD/AD)*(I-1))):PRINT CHR$(233)
580 NEXT J
590 NEXT I
600 REM *****
610 REM *      AFFICHAGE DU RESULTAT      *
620 REM *****
630 LOCATE 1,17:PRINT"- ATTAQUE: ";AP;"PAS DE ";AV;"ET D'UNE DURE
E DE ";AD;"CENTIEMES DE SECONDE CHACUNS."
640 REM *****
650 REM *      DETERMINATION DU MAINTIEN      *
660 REM *****
670 LET HC=(AP*AD)/DD:LET VC=(AV*AP)
680 LET HCP=HC:LET VCP=VC
690 GOSUB 1360
700 REM *****
710 REM *      TRACE DES POINTS      *
720 REM *****
730 IF HC<=HCP THEN GOTO 690
740 IF (HC-HCP)<= ABS(VCP-VC) THEN GOTO 840
750 IF VC<VCP THEN LET MV=0:LET MP=1:LET MD=(HC-HCP)*DD
760 IF VC>VCP THEN LET MV=1:LET MP=ABS(VC-VCP):LET MD=DD*INT(AB
S((HC-HCP)/(VC-VCP)))
770 IF VC<VCP THEN LET MV=-1:LET MP=ABS(VC-VCP):LET MD=DD*INT(A
BS((HC-HCP)/(VC-VCP)))

```



```

780 LOCATE HC,16-VC:PRINT CHR$(255)
790 LOCATE (AP*(AD/DD))+((MP*MD)/DD),16-VCP-(MV*MP):PRINT CHR$(
233)
800 FOR I=0 TO (MP*(MD/DD))
810 LOCATE I+(AP*(AD/DD)),16-(AV*AP)-INT(I*(DD/MD)*MV):PRINT CH
R$(233)
820 NEXT I
830 GOTO 910
840 LET MP=HC-HCP:LET MV=INT(0.5+((VC-VCP)/(HC-HCP))):LET MD=DD
850 FOR I=0 TO MP STEP ABS(1/(MV))
860 LOCATE I+(AP*(AD/DD)),16-(AV*AP)-INT(I*(DD/MD)*MV):PRINT CH
R$(233)
870 NEXT I
880 REM *****
890 REM *      AFFICHAGE DES RESULTATS      *
900 REM *****
910 LOCATE 1,18:PRINT"- MAINTIEN:";MP;"PAS DE";MV;"ET D'UNE DUR
EE DE";MD;"CENTIEMES DE SECONDE CHACUNS."
920 REM *****
930 REM * DETERMINATION DE LA DECROISSANCE *
940 REM *****
950 LET UP=0:LET HCP=INT((AP*AD/DD)+(MP*MD/DD)):LET VCP=VC:LET
VC=1
960 GOSUB 1360
970 IF HC<=HCP THEN GOTO 960
980 REM *****
990 REM *      TRACE DES POINTS      *
1000 REM *****
1010 IF (HC-HCP)<VCP THEN LET FV=-INT(VCP/(HC-HCP)):LET FD=DD
1020 IF (HC-HCP)>=VCP THEN LET FV=-1:LET FD=DD*INT((HC-HCP)/VCP
)
1030 LET FP=INT(((AP*AV)+(MP*MV))/(-FV))
1040 LOCATE HC,15:PRINT CHR$(255)
1050 FOR I=1 TO INT(FP*(FD/DD))
1060 FOR J=1 TO -FV
1070 LOCATE HCP+I,16-(VCP+J+INT(I*FV*((FP*DD)/(FD*FP))):PRINT
CHR$(233)
1080 NEXT J
1090 NEXT I
1100 REM *****
1110 REM *      AFFICHAGE DES RESULTATS      *
1120 REM *****
1130 LOCATE 1,19:PRINT"- DECROISSANCE:";FP;"PAS DE";FV;"ET D'UN
E DUREE DE";FD;"CENTIEMES DE SECONDE CHACUNS."
1140 REM *****
1150 REM * CALCUL DE L'ORDRE BASIC CORRESPONDANT *
1160 REM *****
1170 LOCATE 1,21:INPUT "NUMERO DE CETTE ENVELOPPE S.V.P. ";NE
1180 IF NE<1 OR NE>16 THEN GOTO 1170
1190 LOCATE 1,21:PRINT "L'INSTRUCTION LUI CORRESPONDANT SERA DO
NC:"
1200 PRINT "ENV ";NE;",";AP;",";AV;",";AD;",";MP;",";MV;",";MD;
",";FP;",";FV;",";FD
1210 PRINT "ECOUTEZ LE SON OBTENU:"
1220 ENV 1,AP,AV,AD,MP,MV,MD,FP,FV,FD
1230 REM *****
1240 REM *      EXECUTION DE L'ORDRE OBTENU      *
1250 REM *****
1260 FOR R=0 TO 2
1270 SOUND 1,119,0,0,1,0,0:SOUND 2,80,0,0,1,0,0
1280 FOR T=0 TO 500+DD:NEXT T
1290 NEXT R
1300 LOCATE 1,23:PRINT "POUR UNE AUTRE ENVELOPPE TAPER ENTER ."
1310 IF INKEY(18)=(0) THEN GOTO 60
1320 GOTO 1310
1330 REM *****
1340 REM *      ROUTINE DE DEPLACEMENT DU CURSEUR      *
1350 REM *****
1360 LOCATE HC,16-VC:PRINT CHR$(255)
1370 FOR T=1 TO 30:NEXT T
1380 LET HC=HC-(INKEY(1)=0)+(INKEY(8)=0)
1390 LET VC=VC+((INKEY(2)=0)-(INKEY(0)=0))*UP
1400 IF VC<1 THEN LET VC=1
1410 IF VC>15 THEN LET VC=15
1420 IF HC>50 THEN LET HC=50
1430 IF HC<1 THEN LET HC=1
1440 LOCATE HC,16-VC:PRINT CHR$(233)
1450 FOR T=1 TO 30: NEXT T
1460 IF INKEY(18)=0 THEN RETURN
1470 GOTO 1360

```