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1 ON ERROR GOTO 2000
5 DIM en(15):DIM ev(15,15):DIM et(15,15)
10 a=1:ch=0:PRINT CHR$(23);CHR$(0)
20 CLS:BORDER 0:INK 0,0:INK 1,21:INK 2,2:INK 3,1
30 PRINT "ENV or ENT (Input ";CHR$(34);"V";CHR$(34);" o
r ";CHR$(34);"T";CHR$(34);")"
40 IF INKEY(55) AND 32<>0 AND INKEY(51) AND 32<>0 THEN
GOTO 40
50 iky=INKEY(55)
60 FOR j=1 TO 15:IF ev(j,1)<>0 THEN NEXT
70 j1=j
80 FOR j=1 TO 15:IF et(j,1)<>0 THEN NEXT
90 j2=j
100 CLS
110 LOCATE 1,1
120 IF iky>=0 THEN PRINT"Volume Envelope No:";j1:GOTO 1
40
130 PRINT"Tone Envelope No:";j2
140 PRINT "Use ";CHR$(34);"ENTER";CHR$(34);" TO encode
a section"
150 PRINT "Number-pad ";CHR$(34);"ENTER";CHR$(34);" end
s current envelope"
160 GOSUB 1000
170 ERASE en:DIM en(15)
180 PLOT 0,240,1
190 x1=0:y1=0
200 stflag=1:hflag=0:vflag=0
210 x=0:y=0:h=0:v=0
220 LOCATE 1,19:PRINT"Use cursor keys to draw envelope
steps"
230 DRAWR 4*x,4*y
240 LOCATE 35,5:PRINT(YPOS-240)/4
250 z%=INKEY%:IF z%="" THEN 250
260 IF INKEY(9)=0 THEN ch=ch XOR 1:PRINT CHR$(23);CHR$(
ch):LOCATE 1,18:IF ch=1 THEN PRINT"ERASING" ELSE PRINT"

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265 PRINT CHR$(23);CHR$(ch)
270 IF INKEY(18)=0 THEN 360
280 IF INKEY(6)=0 THEN 480
290 x=0:y=0
300 x=(INKEY(1)=0)*(XPOS(635)-(INKEY(8)=0)*(XPOS(0)
310 y=(INKEY(0)=0)*(YPOS(352)-(INKEY(2)=0)*(YPOS(128)
320 x1=x1+x:y1=y1+y
330 IF x<>0 THEN hflag=1:IF vflag=1 THEN vflag=0:h=h+x-
stflg*x:stflg=0
340 IF y<>0 THEN vflag=1:IF hflag=1 THEN hflag=0:v=v+y-
stflg*y:stflg=0
350 GOTO 230
360 IF ABS(h)<>ABS(v) THEN LOCATE 1,20:PRINT"Unmatched
number of steps":GOTO 250
370 v=v+SGN(v):h=h+SGN(h)
380 IF h=0 THEN h=1
390 LOCATE 1,20:PRINT SPACE$(39)
400 PRINT"Step count:";PRINT"Step size :";PRINT"Pause t
ime:"
410 en(a)=h:LOCATE 11+a,21:PRINT h
420 IF v=0 THEN en(a+1)=0:GOTO 440
430 en(a+1)=SGN(v)*ROUND(y1/v)
440 LOCATE 11+a,22:PRINT en(a+1)
450 en(a+2)=ROUND(x1/h)
460 LOCATE 11+a,23:PRINT en(a+2)
470 a=a+3:IF a<15 THEN 190 ELSE 480
480 REM ENCODE ENV
490 IF !ky<0 THEN GOTO 550
500 FOR j=1 TO 15:ev(j1,j)=en(j):NEXT
510 ENV j1,ev(j1,1),ev(j1,2),ev(j1,3),ev(j1,4),ev(j1,5)
,ev(j1,6),ev(j1,7),ev(j1,8),ev(j1,9),ev(j1,10),ev(j1,11)
,ev(j1,12),ev(j1,13),ev(j1,14),ev(j1,15)
520 IF j2>1 THEN j2=j2-1
530 GOTO 590

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540 STOP
550 REM ENCODE ENT
560 FOR j=1 TO 15:et(j2,j)=en(j):NEXT
570 ENT -j2,et(j2,1),et(j2,2),et(j2,3),et(j2,4),et(j2,5)
,et(j2,6),et(j2,7),et(j2,8),et(j2,9),et(j2,10),et(j2,11)
,et(j2,12),et(j2,13),et(j2,14),et(j2,15)
580 IF j1>1 THEN j1=j1-1
590 SOUND 129,478,0,0,j1,j2
600 LOCATE 1,25
610 PRINT CHR$(34);"ENTER";CHR$(34);" selects a new env
elope";CHR$(22)+CHR$(0)
620 IF INKEY="" THEN GOTO 620
630 IF INKEY(18)<>-1 THEN GOTO 10:ELSE 590
1000 REM chequers
1010 c1=0:c2=0
1020 LOCATE 1,4
1030 FOR i=1 TO 7
1040 FOR j=1 TO 10
1050 PAPER 2:PRINT" ";:PAPER 3:PRINT" ";: PAPER 2:PRINT
" ";:PAPER 3:PRINT" ";
1060 NEXT
1070 FOR j=1 TO 10
1080 PAPER 3:PRINT" ";:PAPER 2:PRINT" ";: PAPER 3:PRINT
" ";:PAPER 2:PRINT" ";
1090 NEXT:NEXT i
1100 PLOT 0,240:DRAW 639,240
1110 PAPER 0
1120 RETURN
2000 IF ERR=10 THEN GOTO 10
5000 FOR j=0 TO 15
5010 PRINT en(j),
5020 PRINT ev(j1,j),
5030 PRINT et(j2,j)
5040 NEXT

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