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10 REM *****
20 REM * CAMPO MINADO *
30 REM *****
40 REM * Antonio Fernando *
50 REM * Aguilera Romero *
60 REM * GRANADA *
70 REM *****
80 GOSUB 260: inicializacion
90 GOSUB 600: pantalla
100 be=1
110 WHILE res<>"N"
120 GOSUB 750: nivel
130 GOSUB 900: bucle de la partida
140 GOSUB 1130: resultado de la pa
rtida
150 WEND
160 PAPER #4,0
170 FOR i=1 TO 40
180 WINDOW #4,i,i,1,25:CLS #4
190 OUT #8000,i
200 NEXT
210 OUT #8000,0
220 END
230 REM *****
240 REM * INICIALIZACION *
250 REM *****
260 MODE 1
270 PAPER 0:PEN 1:INK 0,10:INK 1,0:
INK 2,26:INK 3,24:BORDER 10
280 SYMBOL AFTER 251
290 SYMBOL 252,0,0,60,60,60,60,0,0
300 SYMBOL 253,0,0,0,24,24,0,0,0
310 SYMBOL 254,255,129,129,129,129,
129,129,255
320 SYMBOL 255,24,152,145,255,56,56
,68,198
330 DIM m(20,12),p(120),m(120)
340 p=120:cr$(1)=CHR$(144):cr$(2)=C
HR$(252):cr$(3)=CHR$(233):cr$(4)=CH
R$(143)
350 ENV 1,13,-1,5:ENT 1,100,-8,3
360 PLUT 0,22,1:DRAW 638,22:DRAW 63
8,398:DRAW 0,398:DRAW 0,22:PLUT 2,2
4,2:DRAW 636,24:DRAW 636,396:DRAW 2
,396:DRAW 2,24:PLUT 4,26,1:DRAW 634
,26:DRAW 634,394:DRAW 4,394:DRAW 4,
26
370 PAPER 0:PEN 1:LOCATE 9,2:PRINT
"ELIGE TECLA PARA ":PAPER 1:PEN 3:
PRINT "DERECHA"
380 WHILE dr$="" :dr$=UPPER$(INKEY$)
:WEND
390 PAPER 0:PEN 1:LOCATE 8,4:PRINT
"ELIGE TECLA PARA ":PAPER 1:PEN 3:
PRINT "IZQUIERDA"
400 WHILE iz$="" OR iz$=dr$:iz$=UPPE
R$(INKEY$):WEND
410 PAPER 0:PEN 1:LOCATE 9,6:PRINT
"ELIGE TECLA PARA ":PAPER 1:PEN 3
:PRINT "ARRIBA"
420 WHILE ar$="" OR ar$=dr$ OR ar$=

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iz$:ar$=UPPER$(INKEY$):WEND
430 PAPER 0:PEN 1:LOCATE 10,8:PRINT
"ELIGE TECLA PARA ":PAPER 1:PEN 3
:PRINT "ABAJO"
440 WHILE ab$="" OR ab$=dr$ OR ab$=
iz$ OR ab$=ar$:ab$=UPPER$(INKEY$):W
END
450 PAPER 0:PEN 1:LOCATE 4,10:PRINT
"ELIGE TECLA PARA ":PAPER 1:PEN 3
:PRINT "DESACTIVAR MINAS"
460 WHILE de$="" OR de$=dr$ OR de$=
iz$ OR de$=ar$ OR de$=ab$:de$=UPPER
$(INKEY$):WEND
470 PEN 1:PAPER 0
480 LOCATE 10,12:PRINT CHR$(174):"Q
UIERES DEJAR HUELLA?":h$="" :WHILE h
$="" :h$=UPPER$(INKEY$):WEND
490 IF h$="S" THEN hue$=CHR$(253) E
LSE hue$=CHR$(32)
500 LOCATE 5,15:PRINT CHR$(1):iz$:"
IZQUIERDA":LOCATE 26,15:PRINT CH
R$(1):dr$:" DERECHA"
510 LOCATE 5,18:PRINT CHR$(1):ar$:"
ARRIBA":LOCATE 26,18:PRINT CHR$(
1):ab$:" ABAJO"
520 LOCATE 11,21:PRINT CHR$(1):de$:"
DESACTIVAR MINAS"
530 PAPER 1:PEN 3:LOCATE 11,24:PRIN
T " PULSA UNA TECLA. ":LOCATE 11,
23:PRINT STRING$(20,32):LOCATE 11,2
5:PRINT STRING$(20,32)
540 PLOT 10:16,0,2:DRAW 20:16,0:DR
AW 0,48:DRAW -20:16,0:DRAW 0,-48
550 WHILE INKEY$="" :WEND
560 RETURN
570 REM *****
580 REM * DIBUJA PANTALLA *
590 REM *****
600 PAPER 0:PEN 1:CLS:WINDOW #1,1,4
0,1,1:PEN #1,3:PAPER #1,0:CLS #1:LO
CATE 1,2
610 a$=CHR$(154)+CHR$(158):b$=CHR$(
149)+CHR$(32):c$=CHR$(154)+CHR$(159
):d$=CHR$(154)+CHR$(155):e$=CHR$(8)
620 PRINT CHR$(150):FOR i=1 TO 18:
PRINT a$:NEXT i:PRINT CHR$(154)+CH
R$(156)
630 FOR i=1 TO 10
640 FOR n=1 TO 20:PRINT b$:NEXT n
650 PRINT CHR$(151):FOR a=1 TO 18:
PRINT c$:NEXT a:PRINT CHR$(154):P
RINT CHR$(157)
660 NEXT i
670 FOR n=1 TO 20:PRINT b$:NEXT n
680 PRINT CHR$(147):FOR v=1 TO 18:
PRINT d$:NEXT v:PRINT CHR$(154):P
RINT CHR$(153)
690 LOCATE 13,25:PEN 3:PAPER 1:PRIN
T " CAMPO MINADO ":PAPER 0:PEN 1
700 PLOT 192,16,1:DRAW 238,0
710 RETURN
720 REM *****

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730 REM * NIVEL *
740 REM *****
750 IF be=0 THEN 810
760 CLS #1:PRINT #1,TAB(10);"ELIGE
EL NIVEL (1-9) ";
770 x$="" :WHILE x$<CHR$(49) OR x$>C
HR$(57)
780 x$=UPPER$(INKEY$)
790 WEND
800 PRINT #1,x$:1=VAL(x$)
810 GOSUB 1860
820 maxi=ROUND(1/5):des=0
830 WINDOW #2,1,12,25,25:PAPER #2,3
:PEN #2,1:CLS #2:PRINT #2," MAXIMO
":maxi:WINDOW #3,28,39,25,25:PAPER
#3,3:PEN #3,1:CLS #3:PRINT #3," D
ESACT":des;
840 PLOT 0,16,3:DRAW 190,0:PLOT 43
2,16:DRAW 190,0
850 CLS #1:cx=1:cy=11:cp=0
860 RETURN
870 REM *****
880 REM * BUCLE DE JUEGO *
890 REM *****
900 bf=0:be=0
910 WHILE bf=0 AND be=0 AND p>cp
920 count=count+1:IF count>3 THEN
inc=-1 ELSE IF count<2 THEN inc=1
930 m(cp)=cx*2
940 p(cp)=cy*2+1
950 cr$=cr$(count)
960 bm=0
970 f$=UPPER$(INKEY$)
980 IF f$=iz$ AND cx>1 THEN dx=-1:b
m=1
990 IF f$=dr$ AND cx<19 THEN dx=1:b
m=1
1000 IF f$=ar$ AND cy>1 THEN dy=-1:
bm=1
1010 IF f$=ab$ AND cy<11 THEN dy=1:
bm=1
1020 IF f$=de$ AND des<maxi THEN 60
SUB 1360
1030 IF bm=1 THEN cp=cp+1:LOCATE cx
*2,cy*2+1:PRINT hue$
1040 cx=cx+dx:cy=cy+dy:dx=0:dy=0:bm
=0
1050 PEN 2:LOCATE 38,3:PRINT cr$:PE
N 1:LOCATE cx*2,cy*2+1:PRINT CHR$(2
55)
1060 GOSUB 1230
1070 IF cx=19 AND cy=1 THEN bf=1
1080 WEND
1090 RETURN
1100 REM *****
***
1110 REM * RESULTADO DE LA PARTIDA
*
1120 REM *****
***
1130 PAPER #2,0:CLS #2:PAPER #3,0:C
LS #3

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1140 PLOT 0,16,0:DRAW 190,0:PLOT 4
32,16:DRAW 190,0
1150 IF cp=p THEN CLS #1:PRINT #1,1
AB(4)"DEMASIADOS MOVIMIENTOS.":CHR$
(175);"A EMPLEZAR!":FOR ret=1 TO 100
0:NEXT ret:GOTO 1190
1160 IF be=1 THEN SOUND 1,275,100,1
5,1,1,15:PEN 2:PAPER 1:FOR nv=0 TO
12:LOCATE 14,12:PRINT CHR$(24);" O
ESTRUIDO ":FOR ret=1 TO 100:NEXT r
et:NEXT nv:PRINT CHR$(24):PEN 1:PAP
ER 0
1170 GOSUB 1580
1180 IF bf=1 THEN GOSUB 1770 ELSE 6
DSUB 1490
1190 RETURN
1200 REM *****
1210 REM * MINAS ALREDEDOR *
1220 REM *****
1230 IF mi(cx,cy)=1 THEN ex=cx:ey=c
y:be=1:RETURN
1240 FOR x1=-1 TO 1:x2=cx+x1
1250 FOR y1=-1 TO 1:y2=cy+y1
1260 IF mi(x2,y2)=1 THEN b=b+1
1270 NEXT y1
1280 NEXT x1
1290 PRINT #1,CHR$(30);" NIVEL:";1
:LOCATE #1,14,1:PRINT #1," MINAS
A UN CUADRADO:";b
1300 IF b>0 THEN SOUND 1,284,20,7
1310 b=0
1320 RETURN
1330 REM *****
1340 REM * DESACTIVA MINAS A UN CU
ADRAO *
1350 REM *****
1360 des=des+1
1370 FOR x1=-1 TO 1:x2=cx+x1
1380 FOR y1=-1 TO 1:y2=cy+y1
1390 IF mi(x2,y2) THEN cdm$(des)=cd
m$(des)+"1" ELSE cdm$(des)=cdm$(des
)+"0"
1400 mi(x2,y2)=0
1410 mdy(des)=cx*2:mdy(des)=cy*2+1
1420 NEXT y1
1430 NEXT x1
1440 PRINT #3,CHR$(30);" DESACT";d
es;
1450 RETURN
1460 REM *****
1470 REM * OTRA PARTIDA *
1480 REM *****
1490 CLS #1:PRINT #1,STRING$(10,32)
;CHR$(174);"OTRA PARTIDA (S/N)?"
1500 res$="":WHILE res$="" :res$=UPP
ER$(INKEY$):WEND
1510 IF res$="N" THEN RETURN
1520 IF res$(">S") THEN 1500
1530 CLS #1
1540 RETURN

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1550 REM *****
1560 REM * REPETICION DE LA PARTIDA
A *
1570 REM *****
1580 CLS #1:LOCATE #1,9,1:PRINT #1,
" REPETICION DE LA PARTIDA ":LOCATE
14,12:FOR nv=1 TO 7:PRINT c$;NEXT
nv
1590 FOR i=1 TO 19:FOR j=1 TO 11
1600 IF mi(i,j)=1 THEN LOCATE i*2,j
*2+1:PRINT CHR$(231) ELSE LOCATE i*
2,j*2+1:PRINT CHR$(32)
1610 NEXT j:NEXT i
1620 PEN 2
1630 buc=1
1640 PRINT CHR$(22);CHR$(1);
1650 FOR nv=0 TO cp-1:LOCATE m(nv),
p(nv):PRINT CHR$(253):FOR ret=1 TO
50:NEXT ret
1660 IF m(nv)=mdx(buc) AND p(nv)=md
y(buc) THEN GOSUB 1980
1670 NEXT nv
1680 PRINT CHR$(22);CHR$(0);
1690 IF ex(>0) AND ey(>0) THEN LOCATE
ex*2,ey*2+1:PRINT CHR$(203) ELSE L
OCATE 38,3:PRINT "S"
1700 PEN 1
1710 FOR ret=1 TO 2000:NEXT ret
1720 ex=0:ey=0
1730 RETURN
1740 REM *****
1750 REM * INCREMENTO DE NIVEL *
1760 REM *****
1770 CLS #1:LOCATE #1,5,1:PRINT #1,
"LO HAS HECHO BIEN EN EL NIVEL";1
1780 FOR ret=1 TO 1500:NEXT ret
1790 l=l+1
1800 CLS #1:LOCATE #1,4,1:PRINT #1,
"A VER COMO LO HACES EN EL NIVEL";1
1810 GOSUB 1860
1820 RETURN
1830 REM *****
1840 REM * COLoca LAS MINAS *
1850 REM *****
1860 FOR i=1 TO 19:FOR j=1 TO 11:LU
CATE i*2,j*2+1:PRINT CHR$(32);mi(i,
j)=0:NEXT j:NEXT i
1870 FOR ww=1 TO cp:p(ww)=0:m(ww)=0
:NEXT ww:n=0:cp=0
1880 FOR i=1 TO des:cdm$(i)="" :NEXT
1890 FOR i=1 TO 144
1900 x=INT(RND*19+1):y=INT(RND*11+1
)
1910 IF mi(x,y)=1 OR (x=19 AND y=1)
OR (x=19 AND y=2) OR (x=18 AND y=1
) OR (x=2 AND y=11) OR (x=1 AND y=1
0) OR (x=1 AND y=11) THEN 1900
1920 mi(x,y)=1
1930 NEXT
1940 RETURN

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1950 REM *****
1960 REM * DIBUJA MINAS DESACTIVAD
AS *
1970 REM *****
1980 PRINT CHR$(23);CHR$(1);
1990 FOR v=1 TO 2
2000 FOR i=1 TO 360 STEP 45
2010 PLOT mdx(buc)*16-8,400-mdy(buc
)*16+4,3:DRAW mdx(buc)*16-8+32*SIN(
i),400-mdy(buc)*16+4+32*COS(i)
2020 NEXT
2030 NEXT
2040 PRINT CHR$(23);CHR$(0);
2050 IF MID$(cdm$(buc),1,1)="1" AND
mdx(buc)>3 AND mdy(buc)>3 THEN PEN
1:LOCATE mdx(buc)-2,mdy(buc)-2:PRI
NT CHR$(143);e$;PEN 3:PRINT CHR$(2
54)
2060 IF MID$(cdm$(buc),2,1)="1" AND
mdx(buc)>3 THEN PEN 1:LOCATE mdx(b
uc)-2,mdy(buc):PRINT CHR$(143);e$;
PEN 3:PRINT CHR$(254)
2070 IF MID$(cdm$(buc),3,1)="1" AND
mdx(buc)>3 AND mdy(buc)<22 THEN PE
N 1:LOCATE mdx(buc)-2,mdy(buc)+2:PR
INT CHR$(143);e$;PEN 3:PRINT CHR$(
254)
2080 IF MID$(cdm$(buc),4,1)="1" AND
mdy(buc)>3 THEN PEN 1:LOCATE mdx(b
uc),mdy(buc)-2:PRINT CHR$(143);e$;
PEN 3:PRINT CHR$(254)
2090 IF MID$(cdm$(buc),6,1)="1" AND
mdy(buc)<22 THEN PEN 1:LOCATE mdx(
buc),mdy(buc)+2:PRINT CHR$(143);e$;
PEN 3:PRINT CHR$(254)
2100 IF MID$(cdm$(buc),7,1)="1" AND
mdx(buc)<37 AND mdy(buc)>3 THEN PE
N 1:LOCATE mdx(buc)+2,mdy(buc)-2:PR
INT CHR$(143);e$;PEN 3:PRINT CHR$(
254)
2110 IF MID$(cdm$(buc),8,1)="1" AND
mdx(buc)<37 THEN PEN 1:LOCATE mdx(
buc)+2,mdy(buc):PRINT CHR$(143);e$;
PEN 3:PRINT CHR$(254)
2120 IF MID$(cdm$(buc),9,1)="1" AND
mdx(buc)<37 AND mdy(buc)<22 THEN P
EN 1:LOCATE mdx(buc)+2,mdy(buc)+2:P
RINT CHR$(143);e$;PEN 3:PRINT CHR$(
254)
2130 PEN 2
2140 mdx(buc)=0:mdy(buc)=0
2150 buc=buc+1
2160 RETURN

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