

Hartig, Jochen (1983): Hinterhalt. In: HC – Mein Home-Computer, Ausg. 12/1983 (Dezember), S. 43.

Hinterhalt

Eine Spielfigur geht auf Reisen. Sie will möglichst weit herumkommen, muß aber Hinterhalte vermeiden. Das Programm läuft auf einem Spectrum mit 16-KByte-Speicher.

Die Bewegung der Spielfigur übernehmen die Richtungstasten "5" bis "8". Bei jedem Schritt erscheint vor, hinter oder neben ihr ein Hinterhalt (rotes Feld), der nicht betreten werden darf. Ist die Spielfigur völlig ein-

gekreist, ist die Reise bald zu Ende, denn ein Hinterhalt ist unausweichlich. Sie kann nur noch ihre nähere Umgebung abgehen. Ein Schrittzähler informiert zum Schluß über die zurückgelegte Strecke.

Jochen Hartig

```
5 REM # Jochen Hartig / 1980
6 REM [Hintergrund]
10 RANDOMIZE
15 BORDER 2: CLS
20 LET Y=INT (RND*12)+5
30 LET X=INT (RND*22)+5
40 PRINT INK 2, " "
50 FOR Q=1 TO 20: PRINT INK 2,
AT Q,0;" ";AT Q,31;" ";NEXT Q
70 PRINT INK 2, " "
90 LET P=-1
150 PRINT AT Y,X; "#"
160 LET P=P+1
```

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170 IF INKEY$(<>"") THEN GO TO 17
180 LET a$=INKEY$
190 IF a$(<"5" OR a$)>"8" THEN GO TO 180
200 PRINT AT y,x;" "
210 IF a$="5" THEN LET x=x-1
220 IF a$="6" THEN LET y=y+1
230 IF a$="7" THEN LET y=y-1
240 IF a$="8" THEN LET x=x+1
250 IF ATTR (y,x)=58 THEN GO TO 400
260 PRINT AT y,x;"#"
300 LET c=INT (RND*4)+1
310 LET x1=x+(c=1)-(c=2): LET y
1=y+(c=3)-(c=4)
320 IF ATTR (y1,x1)=58 THEN GO TO 300
330 PRINT AT y1,x1; INK 2;"■"
350 GO TO 160
400 PRINT AT 0,1; PAPER 2; INK 7:p
405 FOR q=60 TO -25 STEP -1
410 BEEP .02,q
420 NEXT q
450 INPUT a$
460 RUN

```

br. (1984): Vier gewinnt. In: HC – Mein Home-Computer, Ausg. 1/1984 (Januar), S. 37f.

„Vier gewinnt“ für den Spectrum

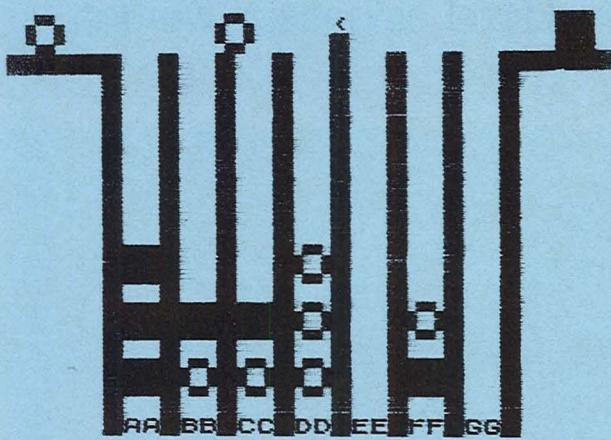
Zwei Spielpartner benutzen den Rechner als Spielgerät, das die einzelnen Züge auf Gültigkeit prüft und Gewinnstellungen erkennt. Die Stärke dieser Version liegt in der grafischen Ausführung der Züge

Die Chips warten zunächst rechts beziehungsweise links neben den sieben Schächten auf einem Podest. Nach einer Zugeingabe bewegt sich der jeweilige Chip auf den gewählten

Schacht zu. Auf dem ersten Teil seiner Strecke schleppt er einen zweiten Chip hinter sich her, der sich dann aber abkoppelt und auf dem Platz seines Vorgängers in Be-

reitschaftsstellung verharrt. Wenn der andere Chip seinen Schacht erreicht hat, fällt er den Schacht hinunter. Der Absturz wird dabei akustisch begleitet.

Zum Schluß ertönt eine Siegesmelodie und der Gewinner-Chip auf dem Podest führt einen Freudentanz aus. Danach beginnt sofort ein neues spannendes Spiel. br



```

2 GO TO 900
3 CLEAR
4 SAVE "V9"
5 GO TO 900
100 PRINT TAB(1,2);TAB 28;Z$(2,2)
    ;TAB 0;Z$(1,3);TAB 28;Z$(2,3);K
    $(1 TO 5);I$(1 TO 5)
102 FOR J=3 TO 20
105 PRINT TAB 5;I$
110 NEXT I
115 PRINT TAB 5;J$
120 DIM F(7,6)
125 FOR G=1 TO 21
130 FOR H=1 TO 2
135 LET I=INT (7*RND)+1
140 IF F(i,1) THEN GO TO 183
145 LET INK=6-2*h
150 LET I=CODE INKEY$-96
155 IF I<1 OR I>7 THEN GO TO 19
160 IF F(i,1) THEN GO TO 191
165 LET J=3*i+8-3*h
170 PRINT AT 0,3*i+8-3*h;CHR$ (
    58+2*h);AT 1,3*i+8-3*h;CHR$ 143
175 FOR J=0 TO 3*(i+18-2*i AND
    h=2))+2
180 LET K=j+(28-2*j AND h=2)
185 BEEP 0.05,30
190 PRINT INK;INK;AT 0,k;Z$(h,2)
    ;AT 1,k;Z$(h,3)
195 LET K=(31-j AND h=2)
200 LET L=1+(3-j AND h=1)

```

```

202 LET M=4-(3-j AND h=2)
203 IF J<4 THEN PRINT INK ink;A
    T 0,k;Z$(h,2);(1 TO M);AT 1,k;Z$(h,3);
    (1 TO M)
204 IF J<4 THEN BEEP 0.30,42
205 NEXT J
206 FOR J=0 TO 5
207 IF F(i,j+1) THEN GO TO 227
208 FOR K=0 TO 2
210 FOR L=1 TO 3
212 PRINT INK ink;AT 3*j+k+l-1,
    3*i+3;Z$(h,l,2 TO 3)
214 NEXT L
220 NEXT K
221 BEEP 0.02,26-4*i
225 NEXT J
227 IF J THEN LET F(i,j)=h
229 FOR I=0 TO 1
230 FOR J=1 TO 7-i
231 LET Z=0
232 FOR K=1 TO 6+i
234 LET Z=(z+1 AND F(j-(j-k)*i,
    k+(j-k)*i)=h)
235 NEXT K
236 IF Z>=4 THEN GO TO 265
237 NEXT J
238 NEXT I
240 FOR I=0 TO 1
241 FOR J=1+3*i TO 4+3*i
242 FOR K=1 TO 3
243 LET Z=0
244 FOR L=0 TO 3
245 LET Z=(z+1 AND F(j+l-2*i,
    k+l)=h)
249 NEXT L
250 IF Z>=4 THEN GO TO 265
251 NEXT K
252 NEXT J
253 NEXT I
255 NEXT h
260 NEXT g
265 BEEP 0.3,13: BEEP 0.6,10: P
AUSE 25: BEEP 0.3,10: BEEP 0.3,1
1: BEEP 0.3,13: BEEP 0.6,22: BEE
P 0.6,22: BEEP 0.6,18
270 LET a=h
272 LET b=28*a-28
274 FOR J=1 TO 20
276 PRINT AT 0,b;"    ";AT 1,b;" "
278 PAUSE 5
280 PRINT INK 6-2*a;AT 0,b;Z$(a,
    2);AT 1,b;Z$(a,3)
282 PAUSE 10
284 NEXT i
290 CLS
300 GO TO 100
900 BORDER 7: PAPER 7: CLS
905 LET I$=CHR$ 143

```

Sinclair-Praxis

```

906 LET J$=i$
907 LET K$=""
910 FOR J=0 TO 6
912 LET I$=I$+" "+CHR$ 143
914 LET J$=J$+CHR$ (65+J)+CHR$ (65+J)+CHR$ 143
915 LET K$=K$+CHR$ 143
918 NEXT J
920 DIM Z$(2,3,4)
922 LET Z$(1,2,2 TO 3)=CHR$ 137
+CHR$ 134
924 LET Z$(1,3,2 TO 3)=CHR$ 134
+CHR$ 137
926 LET Z$(2,2,2 TO 3)=Z$! TO 2
)
928 LET Z$(2,3)=Z$(2,2)
999 GO TO 100

```

bez. (1985): Horror Caves. Dieses Spiel bringt Ihnen den absoluten HORROR!!!
In: Computronic, Ausg. 3-4/1985, S: 71-75.

HORROR CAVES

Dieses Spiel bringt Ihnen den absoluten HORROR!!!

Die metallverarbeitende Industrie ist in Schwierigkeiten geraten: ihre Rohstoffvorräte gehen zur Neige, und neue Quellen müssen erschlossen werden. Doch die umgehend angestellten Bodenanalysen ergeben, daß in den Pyrenäen ein reicher Vorrat an Eisenerz lagert, der nur darauf wartet, abgetragen zu werden. Sofort wird ein erfahrener Mann mit dieser Aufgabe betraut, doch ihre Durchführung gestaltet sich schwieriger, als man erwartet hatte . . .

Denn in den Höhlen der Pyrenäen lauern blutrünstige Geister auf den nichtsahnenden Bergbauspezialisten, und mit dieser Ausgeburt des Bösen ist wahrlich nicht zu spaßen. Doch nicht nur diese Geister machen das Einsammeln der so wichtigen Erze zu einer lebensgefährlichen Aufgabe; erschwerend kommt noch hinzu, daß bei der Arbeit „Unterage“ nureinknapper Vorrat an Sauerstoff zur Verfügung steht und daß man sich nur allzu leicht in den unterirdischen Höhlen verirren kann! (bez.)

Einige wichtige Tips:

Sie können den Schwierigkeitsgrad des Spiels bestimmen (Profi, Amateur, Anfänger); dies wirkt sich sowohl auf die Geschwindigkeit der Geister als auch auf die Höhe Ihres Luftvorrates aus. Haben Sie das Minimum der zum Überleben wichtigen Luftreserven erreicht, so werden Sie durch einen Piepton gewarnt. Sie können neue Luft tanken, wenn Sie bis dahin schon 300 Punkte gesammelt und die Controll-

Taste (CTRL) und „Q“ gedrückt haben. Wenn der Geist Ihnen zu nahe „auf die Peile rückt“, können Sie ihm durch schlagartige Kursänderung ausweichen.

m,o	- Variablen für Spielbewegung
x,y,g	- Variablen für Geistersteuerung und Geschwindigkeit
ba	- Variablen für Bildschirmaufbau und Graphik
a,b,c	- Variablen für Graphik
k,t,l,m	- Variable zur Bestimmung von Bildschirmteilen
a\$,n\$,w	- Tastaturabfrage
Lu,Pu	- Variablen für Luft und Punkte
ae,ab	- Zufallsvariablen für Position des Erzes.

Grafik und Musik werden mit Hilfe von „Read“ und „Data“ erstellt.

Und noch eins:

Wenn Sie einen der Gänge verlassen wol-

Schneider CPC 464



len, müssen Sie den Spieler bis zum Ende des Ganges bewegen und kommen dann automatisch in den nächsten Gang. Gesteuert wird das Spiel mittels Cursor-Tasten.

PS: Wenn Ihnen das Spiel zu leicht werden sollte, müssen Sie nur in den Zeilen 890 und 900 „x=m and“ herausnehmen.

HORROR CAVES

DAS LISTING

```
10 REM ****
20 REM ***      HORROR-CAVES      ***
30 REM ***
40 REM ***      WRITTEN AND DESIGNED ***
50 REM ***
60 REM ***      BY...           ***
70 REM ***
80 REM ***      UDO BREHMER    1985 ***
90 REM ****
100 REM
110 REM ++++++
120 REM +++ Spieleinleitung ++
130 REM ++++++
140 REM
150 INK 0,0:INK 1,24:INK 2,2:INK 3,6:BOR
DER 1:MODE 1
160 CLS:PEN 1:PRINT "Sind Sie :"
170 PRINT:PRINT "Anfaenger..... / 1 /"
180 PRINT:PRINT "Amateur..... / 2 /"
190 PRINT:PRINT "Profi..... / 3 /"
200 PRINT:PEN 2:INPUT "Ihre Wahl";w
210 IF w<1 OR w>3 THEN 200
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```
220 INK 3,6:BOSUB 2720
230 SYMBOL AFTER 32
240 SYMBOL 207,239,231,219,53,204,138,23
5,236
250 SYMBOL 224,24,60,102,126,199,187,255
,126
260 SYMBOL 143,96,156,68,72,38,18,44,112
270 SYMBOL 251,184,28,72,124,20,24,104,2
4
280 SYMBOL 250,26,56,18,62,40,24,22,24
290 SYMBOL 248,186,124,40,56,16,40,40,10
8
300 SYMBOL 249,56,56,108,186,16,40,40,10
8
310 DIM LA(40,25):M=25:O=22:U=200
320 SPEED KEY 1,1
330 ON BREAK GOSUB 340:GOTO 350
340 SPEED KEY 20,2:CLS:PEN 1:END
350 GOSUB 2210
360 GOTO 1020
370 REM
```



```

380 REM ++++++ ++++++ ++++++ ++++++ ++++++
390 REM ++++++ Hauptroutine ++++++
400 REM ++++++ ++++++ ++++++ ++++++ ++++++
410 REM
420 INK 1,24:INK 2,2:INK 3,6:INK 0,0:LOCATE m,o:PRINT CHR$(249)
430 GOSUB 2600
440 LOCATE 1,24:PRINT "Punkte:";pu
450 IF LA(M,O)=0 THEN 680
460 IF LA(M,O)=1 THEN M=2:GOTO 1120
470 IF LA(M,O)=2 THEN O=2:GOTO 1300
480 IF LA(M,O)=3 THEN O=23:GOTO 1020
490 IF LA(M,O)=4 THEN M=38:GOTO 1220
500 IF LA(M,O)=5 THEN M=3:GOTO 1300
510 IF LA(M,O)=6 THEN O=2:GOTO 1680
520 IF LA(M,O)=7 THEN O=23:GOTO 1300
530 IF LA(M,O)=8 THEN M=38:GOTO 1600
540 IF LA(M,O)=9 THEN M=3:GOTO 1680
550 IF LA(M,O)=10 THEN M=3:GOTO 1780
560 IF LA(M,O)=11 THEN M=38:GOTO 1680
570 IF LA(M,O)=12 THEN O=2:GOTO 2060
580 IF LA(M,O)=13 THEN M=2:GOTO 1880
590 IF LA(M,O)=14 THEN M=38:GOTO 1780
600 IF LA(M,O)=15 THEN O=23:GOTO 1500
610 IF LA(M,O)=16 THEN O=2:GOTO 1880
620 IF LA(M,O)=17 THEN M=38:GOTO 1400
630 IF LA(M,O)=18 THEN M=2:GOTO 1500
640 IF LA(M,O)=19 THEN O=23:GOTO 1120
650 IF LA(M,O)=20 THEN O=2:GOTO 1400
660 IF LA(M,O)=21 THEN M=38:GOTO 1020
670 IF LA(M,O)=22 THEN O=23:GOTO 1780
680 IF LA(M,O)=23 THEN M=38:GOTO 1980
690 IF LA(M,O)=24 THEN M=3:GOTO 2060
700 REM
710 REM ++++++ ++++++ ++++++ ++++++
720 REM +++++ Spielerbewegung +++++
730 REM ++++++ ++++++ ++++++ ++++++
740 REM
750 A$=INKEY$
760 IF A$=CHR$(242) AND LA(M-1,O)<>50 THEN M=M-1:LOCATE M,O:PRINT CHR$(251):LOCATE M+1,O:PRINT "
770 IF A$=CHR$(243) AND LA(M+1,O)<>50 THEN M=M+1:LOCATE M,O:PRINT CHR$(250):LOCATE M-1,O:PRINT "
780 IF A$=CHR$(240) AND LA(M,O-1)<>50 THEN O=O-1:LOCATE M,O:PRINT CHR$(248):LOCATE M,O+1:PRINT "
790 IF A$=CHR$(241) AND LA(M,O+1)<>50 THEN O=O+1:LOCATE M,O:PRINT CHR$(249):LOCATE M,O-1:PRINT "
800 IF la(m,o)=40 THEN la(m,o)=0:GOSUB 2
660
810 REM
820 REM ++++++ ++++++ ++++++ ++++++
830 REM +++++ Geister +++++
840 REM ++++++ ++++++ ++++++ ++++++
850 REM
860 g=g+1:IF g=4-w THEN g=0:GOTO 870 ELSE GOTO 1010
870 IF x>m AND la(x-1,y)=0 THEN x=x-1:LOCATE x,y:PRINT CHR$(224):LOCATE x+1,y:PRINT "
880 IF x<m AND la(x+1,y)=0 THEN x=x+1:LOCATE x,y:PRINT CHR$(224):LOCATE x-1,y:PRINT "

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890 IF y<o AND m=x AND la(x,y+1)=0 THEN y=y+1:LOCATE x,y:PRINT CHR$(224):LOCATE x,y-1:PRINT "
900 IF y>o AND m=x AND la(x,y-1)=0 THEN y=y-1:LOCATE x,y:PRINT CHR$(224):LOCATE x,y+1:PRINT "
910 IF m=x AND o=y THEN SPEED KEY 20,2:SOUND 1,500,50,4,2,2,28:FOR t=1 TO 3000:NEXT:RUN
920 REM
930 REM ++++++ ++++++ ++++++ ++++++
940 REM +++++ Luftnahme +++++
950 REM ++++++ ++++++ ++++++ ++++++
960 REM
970 lu=lu-w:LOCATE 1,23:PRINT "Luft:";lu
980 IF lu<60 THEN SOUND 1,300,4,4:BORDER 3
990 IF INKEY(67)=128 AND pu>=300 THEN lu=200:pu=pu-300:BORDER 0:GOSUB 2690
1000 IF lu<1 THEN FOR t=1 TO 3000:NEXT:RUN
1010 GOTO 450
1020 REM ****
1030 ERASE LA:DIM LA(40,25)
1040 CLS:PEN 2
1050 x=21:y=11
1060 FOR BA=25 TO 10 STEP -1:LOCATE 20,BA:PRINT CHR$(207):LA(20,BA)=50:NEXT
1070 FOR BA=25 TO 15 STEP -1:LOCATE 30,BA:PRINT CHR$(207):LA(30,BA)=50:NEXT
1080 FOR BA=20 TO 40:LOCATE BA,10:PRINT CHR$(207):LA(BA,10)=50:NEXT
1090 FOR BA=30 TO 40:LOCATE BA,15:PRINT CHR$(207):LA(BA,15)=50:NEXT
1100 FOR BA=11 TO 14:LA(40,BA)=1:NEXT:FOR BA=20 TO 30:LA(BA,25)=2:NEXT
1110 PEN 1:GOTO 420
1120 REM ****
1130 ERASE LA:DIM LA(40,25)
1140 CLS:PEN 2
1150 x=29:y=11
1160 FOR BA=1 TO 30:LOCATE BA,10:PRINT CHR$(207):LA(BA,10)=50:NEXT
1170 FOR BA=1 TO 20:LOCATE BA,15:PRINT CHR$(207):LA(BA,15)=50:NEXT
1180 FOR BA=10 TO 25:LOCATE 30,BA:PRINT CHR$(207):LA(30,BA)=50:NEXT
1190 FOR BA=15 TO 25:LOCATE 20,BA:PRINT CHR$(207):LA(20,BA)=50:NEXT
1200 FOR BA=11 TO 14:LA(1,BA)=21:NEXT:FOR BA=21 TO 29:LA(BA,25)=20:NEXT
1210 PEN 1:GOTO 420
1220 REM ****
1230 ERASE LA:DIM LA(40,25)
1240 CLS:PEN 3
1250 x=5:y=14
1260 FOR BA=4 TO 40:LOCATE BA,10:PRINT CHR$(207):LOCATE BA,15:PRINT CHR$(207):LA(BA,10)=50:LA(BA,15)=50:NEXT
1270 FOR BA=10 TO 15:LOCATE 3,BA:PRINT CHR$(207):LA(3,BA)=50:NEXT
1280 FOR BA=11 TO 14:LA(40,BA)=5:NEXT
1290 PEN 1:GOTO 420
1300 REM ****
1310 ERASE LA:DIM LA(40,25)

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```

1320 CLS:PEN 3
1330 x=25:y=20
1340 FOR BA=1 TO 25:LOCATE 30,BA:PRINT C
HR$(207):LA(30,BA)=50:NEXT
1350 FOR BA=1 TO 10:LOCATE 20,BA:PRINT C
HR$(207):LA(20,BA)=50:NEXT
1360 FOR BA=1 TO 20:LOCATE BA,10:PRINT C
HR$(207):LOCATE BA,15:PRINT CHR$(207):LA
(BA,10)=50:LA(BA,15)=50:NEXT
1370 FOR BA=15 TO 25:LOCATE 20,BA:PRINT
CHR$(207):LA(20,BA)=50:NEXT
1380 FOR BA=11 TO 14:LA(1,BA)=4:NEXT:FOR
BA=21 TO 29:LA(BA,1)=3:LA(BA,25)=6:NEXT
1390 PEN 1:GOTO 420
1400 REM ****
1410 ERASE LA:DIM LA(40,25)
1420 CLS:PEN 3
1430 x=21:y=19
1440 FOR BA=1 TO 20:LOCATE 20,BA:PRINT C
HR$(207):LA(20,BA)=50:NEXT
1450 FOR BA=1 TO 15:LOCATE 30,BA:PRINT C
HR$(207):LA(30,BA)=50:NEXT
1460 FOR BA=20 TO 40:LOCATE BA,20:PRINT
CHR$(207):LA(BA,20)=50:NEXT
1470 FOR BA=30 TO 40:LOCATE BA,15:PRINT
CHR$(207):LA(BA,15)=50:NEXT
1480 FOR BA=21 TO 29:LA(BA,1)=19:NEXT:FO
R BA=16 TO 19:LA(39,BA)=18:NEXT
1490 PEN 1:GOTO 420
1500 REM ****
1510 ERASE LA:DIM LA(40,25)
1520 CLS:PEN 3
1530 x=29:y=16
1540 FOR BA=1 TO 30:LOCATE BA,15:PRINT C
HR$(207):LA(BA,15)=50:NEXT
1550 FOR BA=1 TO 20:LOCATE BA,20:PRINT C
HR$(207):LA(BA,20)=50:NEXT
1560 FOR BA=20 TO 25:LOCATE 20,BA:PRINT
CHR$(207):LA(20,BA)=50:NEXT
1570 FOR BA=15 TO 25:LOCATE 30,BA:PRINT
CHR$(207):LA(30,BA)=50:NEXT
1580 FOR BA=16 TO 19:LA(1,BA)=17:NEXT:FO
R BA=21 TO 29:LA(BA,25)=16:NEXT
1590 PEN 1:GOTO 420
1600 REM ****
1610 ERASE LA:DIM LA(40,25)
1620 CLS:PEN 2
1630 x=11:y=16
1640 FOR BA=10 TO 40:LOCATE BA,15:PRINT
CHR$(207):LOCATE BA,20:PRINT CHR$(207):L
A(BA,15)=50:LA(BA,20)=50:NEXT
1650 FOR BA=16 TO 19:LOCATE 10,BA:PRINT
CHR$(207):LA(10,BA)=50:NEXT
1660 FOR BA=16 TO 19:LA(40,BA)=9:NEXT
1670 PEN 1:GOTO 420
1680 REM ****
1690 ERASE LA:DIM LA(40,25)
1700 CLS:PEN 2
1710 x=20:y=19
1720 FOR BA=1 TO 40:LOCATE BA,20:PRINT C
HR$(207):LA(BA,20)=50:NEXT
1730 FOR BA=1 TO 20:LOCATE BA,15:PRINT C
HR$(207):LA(BA,15)=50:NEXT
1740 FOR BA=15 TO 1 STEP-1:LOCATE 20,BA:
PRINT CHR$(207):LOCATE 30,BA:PRINT CHR$(207):

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207):LA(30,BA)=50:LA(20,BA)=50:NEXT
1750 FOR BA=30 TO 40:LOCATE BA,15:PRINT
CHR$(207):LA(BA,15)=50:NEXT
1760 FOR BA=21 TO 29:LA(BA,1)=7:NEXT:FOR
BA=16 TO 19:LA(1,BA)=8:LA(40,BA)=10:NEX
T
1770 PEN 1:GOTO 420
1780 REM ****
1790 ERASE LA:DIM LA(40,25)
1800 CLS:PEN 2
1810 x=20:y=19
1820 FOR BA=1 TO 40:LOCATE BA,15:PRINT C
HR$(207):LA(BA,15)=50:NEXT
1830 FOR BA=1 TO 20:LOCATE BA,20:PRINT C
HR$(207):LA(BA,20)=50:NEXT
1840 FOR BA=20 TO 25:LOCATE 20,BA:PRINT
CHR$(207):LA(20,BA)=50:LOCATE 30,BA:PRIN
T CHR$(207):LA(30,BA)=50:NEXT
1850 FOR BA=30 TO 40:LOCATE BA,20:PRINT
CHR$(207):LA(BA,20)=50:NEXT
1860 FOR BA=16 TO 19:LA(1,BA)=11:LA(40,B
A)=13:NEXT:FOR BA=20 TO 30:LA(BA,25)=12:
NEXT
1870 PEN 1:GOTO 420
1880 REM ****
1890 ERASE LA:DIM LA(40,25)
1900 CLS:PEN 2
1910 x=29:y=19
1920 FOR BA=1 TO 30:LOCATE BA,20:PRINT C
HR$(207):LA(BA,20)=50:NEXT
1930 FOR BA=1 TO 20:LOCATE BA,15:PRINT C
HR$(207):LA(BA,15)=50:NEXT
1940 FOR BA=1 TO 15:LOCATE 20,BA:PRINT C
HR$(207):LA(20,BA)=50:NEXT
1950 FOR BA=20 TO 1 STEP-1:LOCATE 30,BA:
PRINT CHR$(207):LA(30,BA)=50:NEXT
1960 FOR BA=16 TO 19:LA(1,ba)=14:NEXT:FO
R BA=21 TO 29:LA(BA,1)=15:NEXT
1970 PEN 1:GOTO 420
1980 REM ****
1990 ERASE LA:DIM LA(40,25)
2000 CLS:PEN 3
2010 x=11:y=19
2020 FOR BA=10 TO 40:LOCATE BA,15:PRINT
CHR$(207):LOCATE BA,20:PRINT CHR$(207):L
A(BA,15)=50:LA(BA,20)=50:NEXT
2030 FOR BA=16 TO 19:LOCATE 10,BA:PRINT
CHR$(207):LA(10,BA)=50:NEXT
2040 FOR BA=16 TO 19:LA(40,BA)=24:NEXT
2050 PEN 1:GOTO 420
2060 REM ****
2070 ERASE LA:DIM LA(40,25)
2080 CLS:PEN 3
2090 x=29:y=19
2100 FOR BA=1 TO 30:LOCATE BA,20:PRINT C
HR$(207):LA(BA,20)=50:NEXT
2110 FOR BA=1 TO 20:LOCATE BA,15:PRINT C
HR$(207):LA(BA,15)=50:NEXT
2120 FOR BA=15 TO 1 STEP-1:LOCATE 20,BA:
PRINT CHR$(207):LA(20,BA)=50:NEXT
2130 FOR BA=20 TO 1 STEP-1:LOCATE 30,BA:
PRINT CHR$(207):LA(30,BA)=50:NEXT
2140 FOR BA=21 TO 29:LA(BA,1)=22:NEXT:FO
R BA=16 TO 19:LA(1,BA)=23:NEXT
2150 PEN 1:GOTO 420

```



```

2160 REM
2170 REM ++++++ ++++++ ++++++ ++++++
2180 REM +++++ Graphik +++++
2190 REM ++++++ ++++++ ++++++ ++++++
2200 REM
2210 CLS
2220 PLOT 20,300,0
2230 FOR ba=1 TO 54
2240 READ a,b,c
2250 DRAWR a,b,c
2260 SOUND 1,50,1,7:SOUND 1,0,2,0
2270 NEXT
2280 DATA 0,-100,3,0,150,3,0,-80,3,50,0,
3,0,-150,3,0,200,3
2290 DATA 28,-50,0,-25,-40,3,25,-40,3,25
,40,3,-25,40,3
2300 DATA 28,0,0,0,-80,3,0,60,3,50,20,3,
3,0,0,0,-80,3,0,60,3,50,20,3,3,0,0
2310 DATA 3,0,0,-25,-40,3,25,-40,3,25,40
,3,-25,40,3,28,0,0,0,-80,3,0,60,3,50,20,
3,3,-40,0,20,2,3,20,-3,3,10,1,3
2320 DATA 60,100,0,-50,-100,3,80,-120,3,
-20,160,0,-40,-40,3,40,-40,3,0,80,3,0,-8
0,3,10,0,3
2330 DATA 3,80,0,25,-80,3,25,80,3,5,-20,
0,40,0,3,-20,20,3,-20,-20,3,30,-60,3
2340 DATA 53,80,0,-40,-26,3,40,-26,3,-40
,-26,3
2350 SPEED INK 20,20
2360 INK 3,0,26:INK 0,0:BORDER 0
2370 LOCATE 9,24:PRINT"Press any key to
play"
2380 REM
2390 REM ++++++ ++++++ ++++++ ++++++
2400 REM +++++ Musik +++++
2410 REM ++++++ ++++++ ++++++ ++++++
2420 REM
2430 RESTORE 2500
2440 FOR mu=1 TO 98
2450 READ k,t,1
2460 SOUND k,t,1.1*I,7:SOUND 1,0,2,0
2470 a$=INKEY$:IF a$<>"" THEN RETURN
2480 NEXT
2490 RESTORE 2500:GOTO 2440
2500 DATA 1,239,25,1,239,25,1,239,25,1,2
39,12.5,1,239,12.5,1,239,12.5,1,239,12.5
,1,239,12.5,1,239,12.5,1,239,25
2510 DATA 1,319,25,1,284,25,1,268,25,1,2
53,12.5,2,358,12.5,1,253,12.5,2,358,12.5
,1,284,12.5,2,358,12.5,1,319,12.5,2,358,
12.5
2520 DATA 1,253,12.5,2,358,12.5,1,253,12
.5,2,358,12.5,1,284,12.5,2,358,12.5,1,31
9,12.5,2,358,12.5
2530 DATA 1,239,12.5,2,379,12.5,1,239,12
.5,2,379,12.5,1,284,12.5,2,379,12.5,1,31
9,12.5,2,379,12.5,1,239,12.5,2,379,12.5,
1,239,12.5,2,379,12.5,1,284,12.5,2,379,1
2.5,1,319,12.5,2,379,12.5
2540 DATA 1,253,25,1,284,12.5,1,319,25,1
,284,12.5,1,319,12.5,1,319,12.5,1,284,25
,1,319,12.5,1,379,25,1,0,12,1,319,12.5
2550 DATA 1,253,12.5,2,358,12.5,1,253,12
.5,2,358,12.5,1,284,12.5,2,358,12.5,1,31
9,12.5

```

```

2560 DATA 2,358,12.5,1,253,12.5,2,358,12
.5,1,253,12.5,2,358,12.5,1,284,12.5,2,35
8,12.5,1,319,12.5,2,358,12.5
2570 DATA 1,239,12.5,2,379,12.5,1,239,12
.5,2,379,12.5,1,284,12.5,2,379,12.5,1,31
9,12.5,2,379,12.5,1,239,12.5
2580 DATA 2,379,12.5,1,239,12.5,2,379,12
.5,1,284,12.5,2,379,12.5,1,319,12.5,2,37
9,12.5
2590 DATA 1,253,25,1,284,12.5,1,319,25,1
,284,12.5,1,319,12.5,1,358,12.5,1,379,25
,1,426,12.5,1,478,25,1,0,80
2600 REM ****
2610 FOR e=1 TO 10
2620 ae=INT(RND(1)*39)+1
2630 ab=INT(RND(1)*24)+1
2640 IF 1a(ae,ab)<>50 THEN LOCATE ae,ab:
PRINT CHR$(143):1a(ae,ab)=40 ELSE 2620
2650 NEXT:RETURN
2660 REM ****
2670 SOUND 1,200,10,4
2680 pu=pu+100
2690 LOCATE 1,24:PRINT "Punkte":pu
2700 RETURN
2710 REM
2720 REM ****
2730 REM *** Spielanweisung ***
2740 REM ****
2750 REM
2760 SPEED KEY 20,2:CLS
2770 LOCATE 1,2:INPUT "Name":n$
2780 PRINT "Einen Moment.....":FOR t=1
TO 2000:NEXT
2790 PEN 3:PRINT n$:PEN 1
2800 PRINT "In unserem Archiv haben wir
gesehen, dass Sie der faehigste Mann sind
, um diesen Auftrag auszufuehren !!!"
2810 PEN 2:PRINT:PRINT "Ihre Aufgabe":PE
N 3
2820 PRINT"-----":PEN 1
2830 PRINT:PRINT:PRINT "Uns gehen langsa
m, aber sicher die Vor-raete an Metallen
aus! Deshalb sammeln Sie in den Hoehlen
der Pyrenaen Erze, um uns die Metall
industrie aufrecht zu erhalten."
2840 PEN 3:PRINT:PRINT "Verlieren Sie nic
ht die Orientierung !!!":PEN 1
2850 PRINT:PRINT "Viel Glaeck !!!"
2860 LOCATE 9,24:PRINT "Press any key to
go on"
2870 a$=INKEY$:IF a$<>"" THEN RETURN ELS
E 2870

```

CHECK V1:PRUEFSUMMEN:	350-	360-	2210	750-	760-	37418
ZEILENNR.: SUMMEN	370-	380-	21593	770-	780-	68330
10- 20: 41506	390-	400-	52871	790-	800-	48522
30- 40: 32487	410-	420-	1773	810-	820-	16970
50- 60: 14405	430-	440-	21810	830-	840-	36281
70- 80: 26282	450-	460-	67191	850-	860-	24738
90- 100: 22444	470-	480-	88911	870-	880-	61020
110- 120: 50076	490-	500-	87438	890-	900-	108252
130- 140: 18970	510-	520-	85274	910-	920-	51045
150- 160: 34404	530-	540-	87301	930-	940-	43956
170- 180: 39282	550-	560-	94288	950-	960-	18970
190- 200: 39002	570-	580-	84637	970-	980-	75372
210- 220: 27050	590-	600-	100605	990-	1000-	46907
230- 240: 37685	610-	620-	9241	1010-	1020-	23502
250- 260: 51074	630-	640-	93507	1030-	1040-	12763
270- 280: 33226	650-	660-	91635	1050-	1060-	64364
290- 300: 39770	670-	680-	99863	1070-	1080-	91226
310- 320: 60376	690-	700-	41447	1090-	1100-	63490
330- 340: 11915	710-	720-	45517	1110-	1120-	25070
	730-	740-	14519	1130-	1140-	12763

1150- 1160: 41366
 1170- 1180: 69510
 1190- 1200: 65728
 1210- 1220: 25102
 1230- 1240: 12768
 1250- 1260: 18697
 1270- 1280: 72211
 1290- 1300: 25134
 1310- 1320: 12768
 1330- 1340: 43591
 1350- 1360: 43203
 1370- 1380: 72877
 1390- 1400: 25166
 1410- 1420: 12768
 1430- 1440: 42958

1450- 1460: 70115
 1470- 1480: 65220
 1490- 1500: 25198
 1510- 1520: 12768
 1530- 1540: 41811
 1550- 1560: 69340
 1570- 1580: 66081
 1590- 1600: 25230
 1610- 1620: 12763
 1630- 1640: 25813
 1650- 1660: 79159
 1670- 1680: 25262
 1690- 1700: 12763
 1710- 1720: 42303

1730- 1740: 74074
 1750- 1760: 75061
 1770- 1780: 25294
 1790- 1800: 12763
 1810- 1820: 41933
 1830- 1840: 56491
 1850- 1860: 89882
 1870- 1880: 25223
 1890- 1900: 12763
 1910- 1920: 42226
 1930- 1940: 65744
 1950- 1960: 80179
 1970- 1980: 23897
 1990- 2000: 12768

2010- 2020: 25858
 2030- 2040: 80218
 2050- 2060: 23928
 2070- 2080: 12768
 2090- 2100: 42226
 2110- 2120: 64050
 2130- 2140: 78631
 2150- 2160: 2764
 2170- 2180: 37307
 2190- 2200: 18970
 2210- 2220: 1709
 2230- 2240: 14895
 2250- 2260: 16354
 2270- 2280: 60637

2290- 2300: 91081
 2310- 2320: 87953
 2330- 2340: 81298
 2350- 2360: 7642
 2370- 2380: 40719
 2390- 2400: 35739
 2410- 2420: 20260
 2430- 2440: 10024
 2450- 2460: 50201
 2470- 2480: 23351
 2490- 2500: 4118
 2510- 2520: 69804
 2530- 2540: 88653
 2550- 2560: 70449
 2570- 2580: 71898

2590- 2600: 59459
 2610- 2620: 26360
 2630- 2640: 84726
 2650- 2660: 8034
 2670- 2680: 14665
 2690- 2700: 22738
 2710- 2720: 21100
 2730- 2740: 50128
 2750- 2760: 2964
 2770- 2780: 73990
 2790- 2800: 42896
 2810- 2820: 35318
 2830- 2840: 52822
 2850- 2860: 56267
 2870- : 28368

GESAMTCHECKSUMME: 41005

Mitchell, Craig (1986): Pak Caverns.
In: Amstrad Computer User, Ausg. 1/1986 (January), S. 53-54, 56, 79f.

PAK CAVERNS

MAIN PROGRAM:

Pak Caverns is a game of strategy and skill, it involves guiding your muncher through ten lethal caverns eating apples and avoiding dangerous objects. Full playing instructions are included in the loader program.

The game is designed to be fun, addictive and not require any great speed from BASIC. Machine code routines have been kept to a minimum.

Due to the length of the program it has been split into two sections, one of which loads after the other. The first program to load contains instructions, graphics and machine code. This is just over 13K in length. After the program is completed the next program on tape automatically loads. This is the main game and is about 35K in length.

Note that all references to the fire button refer to the button on the joystick or the large enter key on the keyboard. I have been as devious as possible in designing the various levels and although some of the levels are extremely difficult to complete I assure you that all are possible. Practice makes perfect.

Typing Instructions:

Type in the first loader program and when it is working correctly, save it using SAVE 'PAKCAVERNS'

Now type in the second program and when that is working correctly, save it using SAVE 'PAKMAIN'

IMPORTANT NOTE:

It is necessary to have had the loader program running before the main program as it uses routines that are set up by the loader program.

```

18' ****
20' * PAK CAVERNS LOADER PROGRAM *
30' * BY CRAIG MITCHELL 1985 *
40' ****
50 MODE 1:BORDER 0:INK 0,0:INK 1,26:INK
2,6,3:INK 3,8,4:SCREEN INK 20,28
60 LOCATE 75,12:PRINT 3:PAPER 0:PRINT "PLEA
SE WAIT":LOCATE 13,24:PEN 2:PRINT "DO
NOT STOP TAPE"
70 GOSUB 480:GOSUB 818
80 SL=H+189:SR=H+231:AD=HIMEM+148
90 POKE SL+1,128:POKE SL+2,199:POKE SR+1
,48:POKE SR+2,199
100 AS="           INSTRUCTIONS (Y/N) ?"
110 B=31:b=18:PEN T:PAPER B
120 FOR F=1 TO 30:POKE AD+S,ASC(MIDS(A$,
0,1)):CALL AD:LOCATE 1,24:PRINT CHR$(254);:POKE AD+5,ASC(MIDS(A$,B,1)):C
ALL AD:LOCATE 48,25:PRINT CHR$(255);
130 CALL A$:CALL SL:=T:b=b#T:NEXT
140 FOR F=1 TO 12:LOCATE 1,25:PRINT CHR$(18):NEXT
150 FOR F=450 TO 640 STEP 32:MOVE F,B:0
RAWR 480,480,T:MOVE 639-F,B:DRAW -4
80,480:NEXT:WINDOW 10,31,11,14:CLS:W
IN 10,14,1,25:LOCATE 11,12:MESS$="I
NSTRUCTIONS (Y/N) ?":GOSUB 2518
160 INK 2,1:INK 3,B:FOR F=8 TO 16 STEP 2
:MOVE F,F:DRAW 639-F,T,(1/2) MOD 23
+2:DRAW 639-F,399-F:DRAW F,399-F:DRA
W 1,T:NEXT
170 EVERY 5 GOSUB 500:I=2:c=2
180 WHILE RS<>"n" AND RS<>"y":PEN 1,I=1+
1:IF I=4 THEN I=2
190 LOCATE 9,18:PRINT CHR$(218):FOR F=18
TO 31:LOCATE F,18:PRINT CHR$(143):N
EXT:LOCATE 32,18:PRINT CHR$(211)
200 FOR F=11 TO 34:LOCATE 32,F:PRINT CHR$(143):NEXT:LOCATE 32,15:PRINT CHR$(283):FOR F=11 TO 18 STEP -1:LOCATE F
,15:PRINT CHR$(143):NEXT:LOCATE 9,15
:PRINT CHR$(289):FOR F=14 TO 11 STEP
-1:LOCATE 9,F:PRINT CHR$(143):NEXT
210 INK 1,c=c:t=t:IF c>25 THEN c=1
220 RS$=LOWERS(INKEY$):MEND
230 FOR F=728 TO 328 STEP 2:MOVE F,T6B:D
RAWR 0,100,B:MOVE 639-F,T6B:DRAWR B,
100:NEXT

```

```

240 IF RS="y" THEN GOSUB 1750
250 RS=REMAINT(B):SOUND 135,B,B,1
260 CLS:BORDER 6:INK 0,0:INK 2,2:INK 3,0
270 c1=3:c2=1:i=3:y=4:m$="PROGRAM AND DE
SIGN BY CRAIG MITCHELL":GOSUB 348
280 x=2:y=6:m$="MAPLE LEAF RAG ARRANGED
BY CRAIG MITCHELL":GOSUB 348
290 c1=1:c2=2:x=4:y=9:m$="ENDO GAY AND
OTHER TUNES ARRANGED":GOSUB 348
300 x=14:y=11:m$="BY PETER YOUNG":GOSUB
348
310 x=2:y=15:c1=2:c2=1:m$="PAK CAVERNS I
S NOW LOADING.PLEASE WAIT":GOSUB 348
320 x=5:y=17:c1=1:c2=3:m$="LOADING TIME
IS APPROX 8 MINUTES":GOSUB 348
330 RUN"pakmain"
340 PRINT CHR$(23)CHR$(3);:TAG
350 xp=((x-1)*16)-2:yp=((26-y)*16):PLOT
888,888,c7
360 FOR f=y TO yp-4 STEP -2:FOR g=x TO
xp+4 STEP 2:MOVE g,f:PRINT m$;:NEXT
g,f
370 TAGOFF
380 PRINT CHR$(23)CHR$(8)CHR$(22)CHR$(1)
;
390 LOCATE x,y:PEM c2:PRINT m$;CHR$(22)C
HR$(8):RETURN
400 tempo=9:ENV 1,15,-1,10
410 DIM a(219,1),b(138,1),c(86,1):RESTOR
E 548
420 f=0
430 READ n,d:IF n>-1 THEN a(f,B)=n:c(f,
1)=d:tempo=f+1:GOTO 438
440 f=8
450 READ n,d:IF n>-1 THEN b(f,B)=n:c(f,
1)=d:tempo=f+1:GOTO 458
460 f=0
470 READ n,d:IF n>-1 THEN c(f,B)=n:c(f,
1)=d:tempo=f+1:GOTO 478
480 note1=B:note2=B:note3=B
490 RETURN
500 IF NOT SQ(1) AND 1 THEN SOUND 1,a(0,no
te1,B),c(note1,1),ABS(c(note1,B)<>B):note1=note1+
15,ABSC(c(note1,B)<>B):note1=note1+
1:IF note1>220 THEN note1=B:note2=note2+
1:note3=B:SOUND 135,B,B,1
510 IF NOT SQ(2) AND 1 THEN SOUND 2,b(no
te2,B),c(note2,1),ABS(b(note2,B)<>B):note2=note2+
15,ABSC(b(note2,B)<>B):note2=note2+
1
520 IF NOT SQ(3) AND 1 THEN SOUND 4,c(no
te3,B),c(note3,1),ABS(c(note3,B)<>B):note3=note3+
15,ABSC(c(note3,B)<>B):note3=note3+
1
530 RETURN
540 DATA 119,4,119,4,119,4,119,4,119,2,1
59,2,142,2,198,2,159,2,142,6,239,2,2
13,2,201,2,239,2,213,2,198,2,239,2,2
13,2,198,2,239,2,213,4,239,4,198,2,1
59,2
550 DATA 119,4,119,4,119,4,119,4,119,2,1
59,2,142,2,198,2,159,2,142,6,239,2,2
13,2,201,2,239,2,213,2,198,2,239,2,2
13,2,198,2,239,2,213,4,239,4,198,2,1
59,2
560 DATA 127,2,88,2,127,2,186,2,84,4,127
,2,89,2,127,2,186,2,95,4,159,2,186
,2,159,4,198,2,119,2,198,2,159,2,142,6,284
,2,225,2,198,2,142,2,198,2,239,2,284
,4,284,2,213,2,179,2,142,4,179,4,198
,2,162,6
570 DATA 159,2,127,2,213,2,179,2,142,6,1
59,2,127,2,213,2,179,2,142,4,179,2,1
62,6,198,2,119,2,198,2,159,2,142,6,1
98,2,119,2,198,2,159,2,142,4,198,2,1
42,6,127,2,88,2,127,2,186,2,84,4,127
,2
580 DATA 89,2,127,2,186,2,95,4,159,2,186
,2,159,4,198,2,119,2,198,2,159,2,142,6,284
,2,225,2,198,2,142,2,198,2,239,2,284
,4,284,2,213,2,179,2,142,4,179,4,198
,2,162,6,213,4,319,4
590 DATA 239,2,198,2,259,2,119,8,119,4,1
42,4,119,4,142,4,119,4,186,2,95,4,18
6,2,119,2,142,2,159,2,142,4,198,2,12,1
59,2,142,2,198,2,259,2,142,4,198,2,1
59,4,142,2,213,12
600 DATA 179,2,142,2,213,2,179,2,142,6,1
98,4,159,2,142,2,198,2,159,2,142,4,1
98,4,159,2,142,2,198,2,159,2,142,4,1
59,2,119,4,142,6,119,4,142,4,119,4,1
86,2,95,4,186,2,119,2,142,2
610 DATA 119,4,142,4,159,2,119,4,198,4,1
59,2,142,2,198,2,159,2,142,4,239,4,2
13,2,239,4,239,4,213,2,239,4,213,2,1
98,2,239,2,213,2,198,4,239,4,213,2,1
98,2,239,4,213,4,319,2,239,2,159,2,1
19,4,48
620 DATA -1,-1
630 DATA 281,4,281,4,281,4,281,4,198,4,3
19,4,638,4,319,4,536,4,338,4,638,4,3
19,4,284,4,253,4,379,8
640 DATA 281,4,281,4,281,4,281,4,198,4,3
19,4,638,4,319,4,536,4,338,4,638,4,3
19,4,284,4,253,4,379,8

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LISTING

```

1140 SYMBOL 84,126,216,24,24,24,24,24,24,48
1150 SYMBOL 85,182,238,182,182,198,198,1
24,8
1160 SYMBOL 86,188,238,182,182,54,60,24,
8
1170 SYMBOL 87,99,227,99,187,127,119,99,
112
1180 SYMBOL 88,284,182,68,24,68,182,204,
8
1190 SYMBOL 89,182,238,182,68,12,24,48,2
24
1200 SYMBOL 90,126,198,12,24,48,182,254,
8
1210 SYMBOL 227,68,126,255,255,255,255,1
26,68
1220 SYMBOL 238,62,111,248,224,224,248,1
27,62
1230 SYMBOL 231,124,246,31,7,7,31,254,12
4
1240 SYMBOL 232,66,195,195,231,167,255,1
26,68
1250 SYMBOL 233,68,126,255,229,231,195,1
95,66
1260 SYMBOL 234,68,126,239,255,248,255,1
26,68
1270 SYMBOL 235,68,126,247,255,15,255,12
6,68
1280 SYMBOL 236,52,118,247,247,225,255,1
26,68
1290 SYMBOL 237,68,126,255,251,239,239,1
18,44
1300 SYMBOL 238,68,255,62,89,82,72,36,8
1310 SYMBOL 239,68,255,62,89,82,72,36
1320 SYMBOL 240,68,255,62,89,82,72
1330 SYMBOL 241,68,255,62,89,82
1340 SYMBOL 242,68,255,62,89

1350 SYMBOL 243,68,255,62
1360 SYMBOL 244,68,255,62,89,82,255
1370 SYMBOL 245,68,255,62,89,82,8,68
1380 SYMBOL 246,238,8,187,8,238,8,187
1390 SYMBOL 247,68,48,148,81,57,166,88,1
6
1400 SYMBOL 248,255,127,62,38,28,12,8,8
1410 SYMBOL 249,255,255,228,206,182,36,7
12,216
1420 SYMBOL 250,68,78,94,126,68,8
1430 SYMBOL 251,255,255,182,284,153,51,1
82,255
1440 SYMBOL 252,188,148,148,148,148,148,
148,99
1450 SYMBOL 253,95,68,68,68,68,68,68,132
:SYMBOL 208,255,255,254,254,252,248
,248,192:SYMBOL 209,255,255,127,127
,63,31,15,3:SYMBOL 218,3,15,31,63,1
27,127,255,255:SYMBOL 211,192,248,2
48,252,254,255,255
1460 RETURN
1470 DATA 21,e1,e9,22,38,00,17,eb
1480 DATA 21,77,88,19,4e,23,46,79
1490 DATA b0,28,15,e5,68,69,19,44,d
1500 DATA 4e,23,46,68,69,19,44,d
1510 DATA e1,71,23,78,1,23,18,4
1520 DATA 01,2a,88,21,66,88,c3,d1
1530 DATA bc,2f,88,c3,37,88,47,45
1540 DATA 54,43,48,41,d2,00,fe,02
1550 DATA 28,1e,dd,6e,82,dd,66,83
1560 DATA e5,dd,46,88,be,00,5,c0
1570 DATA b7,bb,1,cd,68,bb,1,77
1580 DATA 91,3c,23,77,ed,b7,bb,c9
1590 DATA 21,68,88,7e,23,cd,5a,bb
1600 DATA fe,8a,28,17,c9,08,08,08
1610 DATA 08,42,61,64,28,43,61,6d
1620 DATA 6d,67,6e,64,6d,08,22,08
1630 DATA 25,08,2a,88,2d,08,58,08
1640 DATA 08,08,08

1650 DATA cd,06,09,f5,3e,08,cd,a5,bb,dd,
21,32
1660 DATA 98,86,88,7e,dd,77,00,dd,77,01,
23,dd,23,dd
1670 DATA 23,10,f2,f1,cd,bc,b9,3e,fe,21,
32,98,ed
1680 DATA a8,bb,3e,ff,21,3a,98,cd,a8,bb,
c9
1690 DATA 21,38,c7,06,08,cd,19,bd,f3,c5,
e5,56,23,5e,d5
1700 DATA 23,86,4e,7e,2b,2b,77,23,23,23,
18,f7,2b,d1,73,2b
1710 DATA 72,e1,01,00,08,89,c1,10,e1,fb,
c9
1720 DATA 21,88,c7,01,4f,08,89,06,08,cd,
19,hd,f3,c5,56
1730 DATA 2b,5e,2b,d5,06,4e,7e,23,23,77,
2b,2b,10,17,d1,23,73,23,72,*1
1740 DATA 81,00,08,89,c1,78,e1,fb,c9
1750 BORDER 3:INK 0,3:LINK 1,18:LINK 2,25:
INK 3,24:PAPER 0:MODE 1
1760 PEN 3:mess$="P A K C A V E R N S":
LOCATE 11,1:GOSUB 2510:Pen 1:LOCATE
10,3:PRINT STRINGS(22,154)
1770 LOCATE 1,1:Pen 2:PRINT "GUIDE FRED F
ODDISH":Pen 3:PRINT CHR$(250);Pen
EN 2:PRINT "3 THROUGH 10 LETHAL"
1780 PRINT "CAVERNS, COLLECTING APPLES"
;Pen 1:PRINT CHR$(250);Pen 2:PRIN
T"3 AND THEM"

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1790 PRINT:PRINT"ESCAPING THROUGH THE GA
TEWAY":CHR$(252)CHR$(253)" 3 INTO
"
1800 PRINT"THE NEXT CAVERN."
1810 PEN 1:PRINT TAB(17)STRINGS(8,
154)
1820 PEN 3:PRINT:PRINT"YOU CAN ONLY PASS
THROUGH THE GATEWAY":PRINT:PRINT"WH
EN IT IS FLASHING. IT ONLY FLASHES
"
1830 PRINT:PRINT"WHEN A CERTAIN NUMBER O
F APPLES HAVE":PRINT:PRINT"BEEN EAT
EN."
1840 GOSUB 2450
1850 CLS:INK 1,6:INK 2,26:INK 3,2

1860 PEN 3:PRINT"AT THE START OF EACH SC
REEN YOU HAVE AN":PRINT:PRINT"EMERG
Y LEVEL OF 100%. EVERY TIME YOU HIT
"
1870 PRINT"EITHER A WALL []:PAPER 2:Pen
1:PRINT STRINGS(5,246)::Pen 3:PAPER
R 8:PRINT"] , A GIRDER []:Pen 2:PR
INT STRINGS(5,257)::Pen 3:PRINT"] "
1880 PRINT"A FLOOR []:Pen 1:PRINT STRIN
GS(5,249)::Pen 3:PRINT"] OR PART OF
YOUR TRAIL"
1890 PRINT:PRINT"[]:Pen 2:PRINT STRINGS
(5,227)::Pen 3:PRINT"] YOUR ENERGY
DROPS BY 10%."
1900 PRINT:PRINT"ALLOWING YOUR ENERGY LE
VEL TO REACH 0%":PRINT:PRINT"LOSES
YOU A LIFE."
1910 Pen 1:PRINT:PRINT TAB(17)STRINGS(8,
154)
1920 Pen 2:PRINT:PRINT"There are also po
isonous objects which":PRINT:PRINT"are
instantly fatal, these are kill
ing"
1930 PRINT:PRINT"BUSHES []:Pen 3:PRINT
CHR$(247)::Pen 2:PRINT"] AND VENO
US SPIKES []:Pen 1:PRINT CHR$(248)
::Pen 2:PRINT"] ."
1940 PRINT:PRINT"AVOID THESE AT ALL COST
S !"
1950 GOSUB 2450
1960 CLS:INK 1,16:INK 2,11:INK 3,18,3:SP
ED INK 20,68
1970 Pen 1:PRINT"COLLAPSING FLOORS E
3 MAY ALSO BLOCK"
1980 Pen 2:LOCATE 20,t:PRINT STRINGS(5,2
38)::Pen 1
1990 PRINT:PRINT"YOUR PATH BUT YOU CAN E
AT THROUGH THESE,":PRINT"HOWEVER IN
DOING SO SOME ENERGY IS LOST."
2000 Pen 3:PRINT:PRINT TAB(17)STRINGS(8,
154)::Pen 2
2010 PRINT:PRINT"LASER BEAMS MAY ALSO FI
RE AT REGULAR"
2020 PRINT:PRINT"INTERVALS, DO NOT ENTER
THE BEAMS WHEN"
2030 PRINT:PRINT"THEY ARE FIRING."
2040 Pen 3:PRINT:PRINT:PRINT TAB(17)STRI
NGS(20,154):FOR f=18 TO 22:LOCATE 3
,f,:PRINT CHR$(149):NEXT
2050 Pen 1:LOCATE 31,77:PRINT CHR$(246):
LOCATE 18,17:PRINT CHR$(246)::LOCATE
31,23:PRINT CHR$(246)
2060 Pen 1:LOCATE 16,28:mess$="LASER BEA
MS":GOSUB 2510
2070 GOSUB 2450
2080 CLS:INK 1,73:INK 2,19:INK 3,7
2090 LOCATE 17,1:Pen 2:mess$="SCORING":
GOSUB 2510
2100 Pen 1:LOCATE 16,3:PRINT STRINGS(18,
154)
2110 Pen 3:mess$="APPLES
: 10 POINTS":GOSUB 2510:PRINT
2120 PRINT:mess$="FLASHING APPLES : 50 P
OINTS":GOSUB 2510
2130 PRINT:PRINT:PRINT:Pen 1:mess$="LEVE
L BONUS:LEVEL NO. x ENERGY REMAININ
G":GOSUB 2510
2140 PRINT:PRINT:Pen 2:mess$="MEGA-BONUS
=5000 POINTS ON COMPLETION OF":GOSU
B 2510:PRINT:PRINT:mess$="LEVEL TEN
":GOSUB 2510
2150 Pen 1:PRINT:PRINT:PRINT:mess$="BONU
S LIFE AT 5000 POINTS, THEN EVERY":
GOSUB 2510:PRINT:PRINT:mess$="10000
POINTS AFTER THAT":GOSUB 2510
2160 Pen 3:PRINT:PRINT:PRINT:PRINT TAB(1
23)"MYSTERY BONUS = ?"
2170 GOSUB 2450
2180 CLS:INK 1,8:INK 2,26:INK 3,24
2190 Pen 2:LOCATE 16,7:mess$="CONTROLS
":GOSUB 2510
2200 Pen 1:LOCATE 6,5:PRINT"JOYSTICK":PE
N 3:LOCATE 24,3:PRINT"KEYBOARD"
2210 PRINT:Pen 1:PRINT TAB(9)"UP":PRINT:
PRINT TAB(8)"DOWN":PRINT:PRINT TAB(8)
"LEFT":PRINT:PRINT TAB(8)"RIGHT"
2220 Pen 3:LOCATE 27,7:PRINT":LOCATE 2
7,9:PRINT"":LOCATE 27,11:PRINT"2":
LOCATE 27,13:PRINT"X":LOCATE 25,15:
PRINT"ENTER"

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2230 Pen 2:FOR f=7 TO 15 STEP 2:LOCATE 3
,f,:PRINT"---":NEXT
2240 LOCATE 1,19:Pen 1
2250 PRINT"PRESSING FIRE PAUSES THE GAME
UNTIL IT IS PRESSED AGAIN."
2260 Pen 3:PRINT:PRINT"CTRL & TAB RESTAR
T THE GAME."
2270 GOSUB 2450
2280 CLS:INK 1,23:INK 2,14:INK 3,2
2290 LOCATE 14,1:Pen 3:mess$="PRACTICE M
ODE":":GOSUB 2510:Pen 1:LOCATE 13,3:
PRINT STRINGS(16,154)
2300 PRINT:Pen 2:PRINT"IN PRACTICE MODE
YOU CAN CHOOSE TO START":PRINT"ON A
NY OF THE 10 LEVELS, HOWEVER YOU DO
"
2310 PRINT:PRINT"NOT RECEIVE ANY LEVEL B
ONUSES, FREE":PRINT:PRINT"LIVES, MY
STERY BONUSES OR THE MEGA-BONUS":PR
INT"FOR COMPLETING LEVEL 10."
2320 PRINT:Pen 3:PRINT"IF YOU SUCCESSFUL
LY COMPLETE A SCREEN":PRINT:PRINT"Y
OU ARE GIVEN THE CHOICE OF CONTINUIN
G"
2330 PRINT:PRINT"ON THE NEXT LEVEL OR EX
ITING PRACTICE":PRINT:PRINT"MODE. I
F YOU CONTINUE YOU GET 3 LIVES":PRI
NT:PRINT"AND YOUR SCORE IS RESET."
2340 GOSUB 2450
2350 CLS
2360 Pen 1:PRINT"IF YOU LOSE ALL 3 LIVES
YOU ARE GIVEN":PRINT:PRINT"THE SAM
E 2 CHOICES AS BEFORE EXCEPT THAT"
2370 PRINT:PRINT"CONTINUING RESTARTS YOU ON TH
E SAME":PRINT:PRINT"LEVEL AS BEFORE
"
2380 LOCATE 18,9:mess$="HINTS":Pen 2:GO
SUB 2510:Pen 1:LOCATE 17,11:PRINT S
TRINGS(8,154)
2390 Pen 3:PRINT:PRINT"+ PLAN YOUR ROUTE
CAREFULLY AND BE":PRINT" CAREFUL
NOT TO TRAP YOURSELF OR ANY":PRINT"
APPLES IN WITH YOUR TRAIL."
2400 PRINT:PRINT"+ KEEP AN EYE ON YOUR E
NERGY LEVEL":PRINT" REMEMBER, EAT
ENERGY THROUGH COLLAPSING":PRINT" FLO
ORS REQUIRES ENERGY."
2410 PRINT:PRINT"+ ANTICIPATE THE FIRING
OF THE LASERS.":PRINT:PRINT"+ PRAC
TICE !"
2420 GOSUB 2450
2430 CLS
2440 RETURN
2450 Pen 1:LOCATE 9,25:PRINT STRINGS(24,
154):PRINT SPACE TO CONTINUE."
2460 FOR f=1 TO 1800:NEXT
2470 FOR f=1 TO 24:Pen 1:FOR g=238 TO 24
5:LOCATE f+8,25:PRINT CHR$(g):NEXT
2480 WHILE INKEY$<>"":WEND
2490 WHILE INKEY$<> "":WEND
2500 RETURN
2510 ad=HIMEM+140:FOR i=1 TO LEN(mess$)
2520 POKE ad+i,ASC(MIDS(mess$,i,1)):CALL
2530 PRINT CHR$(254)CHR$(18)CHR$(8)CHR$(25
255)CHR$(11):
2540 NEXT i
2550 RETURN

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2560 Pen 9:mess$=CHR$(230)+" "+CHR$(230)+
" "+CHR$(230):LOCATE 6,4:GOSUB 2440:
LOCATE 15,7:Pen 1:PRINT"ENERGY":
2570 IF demo THEN mess$="DEMO":LOCATE 6
4:Pen 1:GOSUB 2440
2580 WINDOW SWAP 8,1
2590 INK 9,6:INK 0,6:INK 1,28:INK 2,22
260 IF prac THEN Level=praclev
261 PLOT 808,808,2:TAGOFF#1:eaten=0:WIND
OW SWAP 8,1:Pen 2:LOCATE 17,4:mess$=
STR$(Level):GOSUB 2440:Pen 9:LOCATE
28,2:mess$="":GOSUB 2440:WINDOW SWA
P 1,0:Pen 1:Z:LOCATE #1,16,2:PRINTN
1," 100"
262 SPEED INK 15,75
263 SOUND 135,0,7,0
264 IF prac THEN Level=praclev:if Level<
11 THEN Level=praclev+1:LOCATE #1,
17,4:PRINT""," ":"LOCATE #1,17,5:PRI
NT"1"," ":"GOTO 268
265 energy=100:ON level GOSUB 3830,3180,
3368,3508,3718,3848,4068,4298,4568,4
778,5000:IF level=11 THEN level=10:GO
TO 198
266 x$=x:y=y
267 xd=0:yd=0:ate=0:low=0
268 frame=0:WHILE INKEY$<>"":WEND
269 IF Laser=1 THEN Let=0:Loc=1:AFTER L
eon1 GOSUB 688:After Leon2,T GOSUB 718
270 FOR f=1 TO 4:INKEY:PRINT":LOWERS(INKE
Y$):IF Let=1 THEN x$=CHR$(153) AND dem
o=0 THEN GOSUB 2528
271 SOUND 2,158+low,78,15,0,2
272 IF INKEY(68):T=28:THEN re=REMAIN(0):if
re=REMAIN(1):GOTO 2598
273 IF demo THEN dard=0:IF par=0 THEN pr
m(mo):Let=x$=mo:mo=0+1
274 IF demo AND x$=4 THEN 748
275 IF k1$="p":THEN xd=0:yd=1:pac=232
276 IF k1$="l":THEN xd=0:yd=1:pac=233
277 IF k1$="r":THEN xd=1:yd=0:pac=231
278 IF k1$="u":THEN xd=0:yd=-1:pac=230
279 hit=B1$((I$))&C1$((J$))&D1$((K$))&E1$((L$))
&LOCATE x,y:GETCHAR,B1$((I$)),B2$((J$))
&PAPER 5
280 IF hit=247 OR hit=248 THEN 2580
281 IF hit=154 AND Let=1 THEN 2580
282 IF hit=149 AND Let=2 THEN 2580
283 IF hit=258 THEN SOUND 4,58,-1,18,3,3
:SCREEN$=PAC$&PAC$&PAC$&TAG#1:MOVE 226
,78:PRINT#1,TC#1:TAGOFF#1:Let=appl
es THEN INK 75,26,8:eaten=1:GOSUB 1,
10,-1,15,5,4:INK 7,aff,aff2:psc=pac$&pac$&
pac$&tag#1
284 low=0:IF hit=246 OR hit=227 OR hit
249 OR hit=251 OR (hit=252 OR hit=2
53) AND eaten=0 OR (hit=211 AND hit
216) OR hit=143 THEN x$=0:y$=ener
gy:energy=100:LOCATE #1,16,2:PRINT#1,
energy:low=50:IF energy<0 THEN 2580
285 IF hit=253 OR hit=252 AND eaten=1
THEN 2688
286 IF hit=237 AND hit<246 THEN energ
y=energy:energy=2:LOCATE #1,16,2:PRINT#1,ener
gy:IF energy<0 THEN 2588
287 IF hit=237 AND hit<246 THEN C$=hit+1:
IF C=246 THEN C=32
288 IF hit>237 AND hit<246 THEN LOCATE x
,y:OPEN 18:PRINT CHR$(c):x$=0:y$=0:w
=50
289 LOCATE 0,x,y:OPEN 2:PRINT CHR$(227):I
L:frame$=frame+4:IF frame=8 THEN fram
e=8
290 GOTO 288
291 BORDER TB:INK 0,7B:INK 1,2:INK 2,7,I
N 3,26:INK 4,6:INK 5,18:INK 6,8:INK
7,17:MODE 8
292 PAPER T:WINDOW 2,78,7,7:CLS:PAPER 21
,78:CLS:WINDOW 1,28,7,25
293 G$((16,287)):FOR f=2 TO 8:LOCATE 19,f:
PRINT CHR$(279):NEXT
294 PAPER 6:LOCATE 3,75:PRINT STRINGS(5,28
7):LOCATE 7,79:PRINT STRINGS(6,287):
295 FOR f=11 TO 15:LOCATE 20,f:PRINT CHR
$(219):NEXT:FOR f=16 TO 19:LOCATE 75
,f:PRINT CHR$(219):NEXT
296 PEN 3:Paper 7:mess$="PRACTICE MODE":
LOCATE 4,2:GOSUB 2440
297 GOSUB 2440
298 PEN 5:Paper 2:LOCATE 3,11:PRINT"USE
SELECT LEVEL":LOCATE 3,13:PRINT"TO
PRESS FIRE"
299 PEN 10:Paper 2:LOCATE 8,16:mess$=">">
:GOSUB 2440:LOCATE 14,16:mess$="<":
GOSUB 2440
300 MOVE 32,399:DRAW 548,0,7:DRAW 0,-1
301 MOVE 32,254:DRAW 574,0,8:DRAW 0,-7
302 MOVE 32,168:DRAW 544,0,4:DRAW -192,0:DR
AW 0,-64:DRAW -192,0:DRAW 0,

```

Main Program

```

18 ****
20 * PAK CAVERNS, GAME & DESIGN BY *
30 * CRAIG MITCHELL - APPROX. 34K *
40 ****
50 DEFINT a-z:RANDOMIZE TIME:KEY DEF 74,
0,122,122,122:KEY DEF 75,8,128,128,12
,8,108,188,188:KEY DEF 76,0,13,13,13
,13,13,13,13:KEY DEF 77,0,112,112,112:KEY
DEF 78,0,112,112,112:KEY DEF 79,0,112,112,112
51 KEY DEF 80,0,112,112,112:KEY DEF 81,0,112,112,112
52 KEY DEF 82,0,112,112,112:KEY DEF 83,0,112,112,112
53 KEY DEF 84,0,112,112,112:KEY DEF 85,0,112,112,112
54 KEY DEF 86,0,112,112,112:KEY DEF 87,0,112,112,112
55 KEY DEF 88,0,112,112,112:KEY DEF 89,0,112,112,112
56 KEY DEF 90,0,112,112,112:KEY DEF 91,0,112,112,112
57 KEY DEF 92,0,112,112,112:KEY DEF 93,0,112,112,112
58 KEY DEF 94,0,112,112,112:KEY DEF 95,0,112,112,112
59 KEY DEF 96,0,112,112,112:KEY DEF 97,0,112,112,112
60 KEY DEF 98,0,112,112,112:KEY DEF 99,0,112,112,112
61 KEY DEF 100,0,112,112,112:KEY DEF 101,0,112,112,112
62 KEY DEF 102,0,112,112,112:KEY DEF 103,0,112,112,112
63 KEY DEF 104,0,112,112,112:KEY DEF 105,0,112,112,112
64 KEY DEF 106,0,112,112,112:KEY DEF 107,0,112,112,112
65 KEY DEF 108,0,112,112,112:KEY DEF 109,0,112,112,112
66 KEY DEF 110,0,112,112,112:KEY DEF 111,0,112,112,112
67 KEY DEF 112,0,112,112,112:KEY DEF 113,0,112,112,112
68 KEY DEF 114,0,112,112,112:KEY DEF 115,0,112,112,112
69 KEY DEF 116,0,112,112,112:KEY DEF 117,0,112,112,112
70 KEY DEF 118,0,112,112,112:KEY DEF 119,0,112,112,112
71 KEY DEF 120,0,112,112,112:KEY DEF 121,0,112,112,112
72 KEY DEF 122,0,112,112,112:KEY DEF 123,0,112,112,112
73 KEY DEF 124,0,112,112,112:KEY DEF 125,0,112,112,112
74 KEY DEF 126,0,112,112,112:KEY DEF 127,0,112,112,112
75 KEY DEF 128,0,112,112,112:KEY DEF 129,0,112,112,112
76 KEY DEF 130,0,112,112,112:KEY DEF 131,0,112,112,112
77 KEY DEF 132,0,112,112,112:KEY DEF 133,0,112,112,112
78 KEY DEF 134,0,112,112,112:KEY DEF 135,0,112,112,112
79 KEY DEF 136,0,112,112,112:KEY DEF 137,0,112,112,112
80 KEY DEF 138,0,112,112,112:KEY DEF 139,0,112,112,112
81 KEY DEF 140,0,112,112,112:KEY DEF 141,0,112,112,112
82 KEY DEF 142,0,112,112,112:KEY DEF 143,0,112,112,112
83 KEY DEF 144,0,112,112,112:KEY DEF 145,0,112,112,112
84 KEY DEF 146,0,112,112,112:KEY DEF 147,0,112,112,112
85 KEY DEF 148,0,112,112,112:KEY DEF 149,0,112,112,112
86 KEY DEF 150,0,112,112,112:KEY DEF 151,0,112,112,112
87 KEY DEF 152,0,112,112,112:KEY DEF 153,0,112,112,112
88 KEY DEF 154,0,112,112,112:KEY DEF 155,0,112,112,112
89 KEY DEF 156,0,112,112,112:KEY DEF 157,0,112,112,112
90 KEY DEF 158,0,112,112,112:KEY DEF 159,0,112,112,112
91 KEY DEF 160,0,112,112,112
```

LISTING

```

600 praclev=1:prach1
610 PEN 9:LOCATE 11,16:mess$="1":GOSUB 2
   440
620 k$=LOWERS(INKEY$):IF k$<>"z" AND k$<
>"x" AND k$<>CHR$(13) THEN 620
630 IF k$="x" THEN praclev=praclev+1:IF
praclev=B THEN praclev=10
640 IF k$="" THEN praclev=praclev+1:IF
praclev=11 THEN praclev=1
650 IF k$=CHR$(13) THEN 100
660 LOCATE 10,16:mess$=STR$(praclev)+"
:GOSUB 2440
670 GOTO 620
680 Lc1=Lc1+1:IF Lc1=2 THEN Lc1=8
690 IF Lc1=8 THEN INK 3,link:AFTER lOff1 GO
SUB 680 ELSE INK 3,link:AFTER lOff1 G
OSUB 680
700 RETURN
710 Lc2=Lc2+1:IF Lc2=2 THEN Lc2=8
720 IF Lc2=8 THEN INK 4,link:AFTER lOff2,1
GOSUB 710 ELSE INK 4,link:AFTER lOff2,1
,1 GOSUB 710
730 RETURN
740 BORDER B:INK 0,B:INK 1,T:INK 2,18:IN
K 3,11:PAPER B:MODE 1:demo=8
750 WINDOW 11,29,6,12:PAPER 1:CLS:WINDOW
10,38,16,19:CLS
760 WINDOW 1,40,1,25
770 PEN 1:PAPER 0:LOCATE 12,13:PRINT STR
INGS(19,287):LOCATE 11,20:PRINT STR
INGS(21,287)
780 FOR t=7 TO 12:LOCATE 30,t:PRINT CHR$(
287):NEXT:t:FOR f=17 TO 19:LOCATE 31,
t:PRINT CHR$(287):NEXT:t
790 PAPER 1:PEN 2:mess$="1 - PRACTICE MO
DE":LOCATE 12,7:GOSUB 2440
800 mess$="2 - START GAME":LOCATE 12,18:
GOSUB 2440
810 PEN 3:mess$="PLEASE PRESS 1 OR 2":LO
CATE 11,17:GOSUB 2440
820 MOVE 160,318:DRAWR 302,0,3:DRAWR 0,-
110:DRAWR -302,0:DRAWR 0,110
830 MOVE 144,158:DRAWR 334,0,2:DRAWR 0,-
62:DRAWR -334,0:DRAWR 0,62
840 SOUND 735,0,1,8
850 s=1
860 FOR t=1 TO 4
870 IF s>2 THEN s=1
880 IF s=1 THEN ch1
890 IF s=2 THEN ch4
900 FOR t=1 TO 3
910 FOR o=0 TO 200:NEXT o
920 ton=(t+4)*54
930 GOSUB 1150:ON K GOTO 490,100
940 SOUND ch,ton,6,0,5,1
950 NEXT
960 ss=t:NEXT:t:ch5=t
970 FOR t=0 TO 100:NEXT:t
980 GOSUB 1150:ON K GOTO 490,100
990 SOUND 2,0,150,15,7,0,1
1000 FOR p=1 TO 3
1010 SOUND ch,486,6,15,6,5,1
1020 FOR t=0 TO 720:NEXT:t
1030 SOUND ch,300,6,0,6,7,1
1040 FOR t=0 TO 360:NEXT:t
1050 SOUND ch,300,6,0,6,7,1
1060 FOR t=0 TO 360:NEXT:t
1070 SOUND ch,486,6,15,6,7,1
1080 FOR t=0 TO 720:NEXT:t
1090 SOUND ch,300,6,0,6,7,1
1100 GOSUB 1150:ON K GOTO 490,100
1110 IF p<3 THEN FOR t=0 TO 720:NEXT:t
1120 SOUND 2,150,10,15,4,2:IF p=3 THEN F
OR t=0 TO 480:NEXT:t
1130 NEXT p
1140 GOTO 860
1150 k$=INKEY$:IF k$<>"1" AND k$<>"2"THE
N k=B:RETURN
1160 IF k$="1"THEN k=1 ELSE k=2
1170 RETURN
1180 RESTORE 1180:ENV 1,5,1,3,15,-1,18
1190 ENV 2,5,1,1,15,-1,4
1200 ENV 3,5,1,1,3,-1,5
1210 ENV 4,5,-1,2,ENT -1,10,-1,1,10,1,1
:ENT 2,0,0,-8,:ENT -3,5,-3,1,5,3,1
ENV 5,10,0,10,10,-1,28:ENT -4,10,5
,1,1,-4,0,1
1220 ENT -5,1,-127,1,5,24,1:ENV 6,1,15,1
,1,-3,2:ENV 7,15,-1,10
1230 ENV 8,5,1,1,15,-1,1:ENV 9,5,1,2,15,
-1,2:ENV 10,5,1,1,15,-1,2:ENV 11,5
,1,10,15,-1,15
1240 ENV 12,5,1,1,15,-1,5,28:ENV 13,5,1,1
,15,-1,10

```

```

1250 DIM a1(88),b1(88),c1(88),d1(88),e1(
32)
1260 DIM b(64),c(64),d(64),e(64),f(64),g
(64)
1270 FOR a=1 TO 64:READ b(a),c(a):NEXT a
1280 DATA 71,48,67,28,71,100,0,0,0,0,0,0,0
,0,0,0,0
1290 DATA 89,28,0,0,71,20,67,20,60,20,67
,20,71,60,0,0
1300 DATA 71,48,88,48,100,80,0,0,0,0,0,0,0
,0,0,0,0
1750 PAPER 0:OPEN 2

```

```

1310 DATA 71,48,0,0,80,48,0,0,89,68,0,0,0
,0,0,0,0
1320 DATA 67,48,71,48,89,100,0,0,0,0,0,0,0
,0,0,0,0
1330 DATA 89,28,80,28,71,20,80,20,89,60
,0,0,0,0,0,0
1340 DATA 80,48,71,48,88,260,0,0,0,0,0,0,0
,0,0,0,0
1350 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0
1360 FOR a=1 TO 64:READ d(a):NEXT a
1370 DATA 45,53,45,47,45,53,45,47,45,53
,45,47,45,53,48,47
1380 DATA 45,53,45,47,45,53,45,47,45,53
,45,47,45,53,48,47
1390 DATA 45,53,45,47,45,53,45,47,45,53
,45,47,45,53,48,47
1400 DATA 45,53,45,47,45,53,45,47,45,53
,45,47,45,53,48,47
1410 FOR a=1 TO 64:READ e(a):NEXT a
1420 DATA 358,358,358,358,358,358,358,358
,358,358,358,358,358,358,358,358,358,35
8,358,358,358,358,358,358,358,379
1430 DATA 426,426,426,426,426,426,426,426
,426,426,426,426,426,426,426,426,426,426
1440 DATA 536,536,536,536,536,536,536,536,53
6,536,536,536,536,536,536,536,426

```

```

1790 LOCATE 2,10:PRINT STRINGS(10,287):L
OCATE 32,10:PRINT STRINGS(9,287):LO
CATE 2,25:PRINT STRINGS(39,287):FO
R f=21 TO 24:LOCATE 4B,f:PRINT CHR$(287):NEXT
1800 FOR f=2 TO 18:LOCATE 11,f:PRINT CHR$(287):LOCATE 4B,f:PRINT CHR$(287):NEXT
1810 PAPER 2
1820 PEN 3:LOCATE 2,2:mess$="PROGRAM":GO
SUB 2440:LOCATE 5,1:PRINT "BY":LOCAT
E 1,7:mess$="C.MITCHELL":GOSUB 2440
1830 LOCATE 33,2:mess$="MUSIC":GOSUB 244
BILocate 35,5:PRINT "BY":LOCATE 32,7
mess$="P.YOUNG":GOSUB 2440
1840 LOCATE 11,2B:mess$="PRESS SPACE TO
START":GOSUB 2440

```

```

1850 LOCATE 9,23:mess$="W A I T F O R
D E M O .":GOSUB 2440
1860 MOVE 0,399:DRAWR 158,0,1:DRAWR 0,-1
44:DRAWR -158,0:DRAWR 0,144
1870 MOVE 479,399:DRAWR 144,0:DRAWR 0,-1
44:DRAWR -144,0:DRAWR 0,144
1880 MOVE 0,96:DRAWR 622,0:DRAWR 0,-88:D
RAWR -622,0:DRAWR 0,88
1890 EVERY 20 GOSUB 2410
1900 prac=0
1910 k2:demo=0:GOSUB 2060:re=REMAIN(0):
IF demo=1 THEN 1930
1920 SOUND 135,0,1,0:GOTO 740
1930 BORDER B:FOR f=0 TO 15:INK 1,0:NEXT
:MODE 0:b=0
1940 WINDOW 1,20,1,20:WINDOW #1,1,20,21
,25
1950 PAPER 5:CLS:PAPER #1,B:CLSA1
1960 WINDOW SWAP 0,T:PEH 1:mess$="DEMONS
TRATION":LOCATE 5,1:GOSUB 2440
1970 PEN 2:mess$="SPACE TO START.":LOCAT
E 4,4:GOSUB 2440
1980 WINDOW SWAP 0,T:LOCATE #1,1,1:PEH X
1,9:PRINT "#1,LEV."
1990 SPEED INK 20,20:INK 0,6:INK 1,14:IN
K 2,26:INK 9,24
2000 FOR L=1 TO 1000 L GOSUB 3030,3180,
3360,3580,3710,3840,4060,4290,4560,
4770,5880
2010 PEN #7,9:LOCATE #1,1,2:PRINT#1,L
2020 IF lasers=1 THEN INK 3,link,b:INK 4
,4,link
2030 FOR f=1 TO 1000:k$=LOWERS(INKEY$)
2040 IF k$="" THEN 740 ELSE NEXT f:CLS:
NEXT L
2050 demo=1:GOTO 190
2060 GOSUB 2160:GOSUB 2230:GOSUB 2160:GO
SUB 2230:GOSUB 2160:GOSUB 2290:GOSU
B 2160:GOSUB 2350
2070 SOUND 2,478,20,10,3
2080 SOUND 2,478,20,10,3
2090 SOUND 2,536,20,10,3
2100 SOUND 2,536,20,10,3

```

```

2110 SOUND 2,568,20,10,3:SOUND 2,568,20
,10,3
2120 SOUND 2,638,20,10,3
2130 demo=1
2140 SOUND 2,716,320,10,1
2150 RETURN
2160 SOUND 1,0,1288
2170 FOR a=1 TO 64
2180 SOUND 4,D(A),20,10,2
2190 SOUND 2,E(A),20,10,3
2200 IF k<>2 THEN 1920
2210 NEXT
2220 RETURN
2230 FOR a=1 TO 64:IF F(a)<>0 THEN SOUND
1,F(a),G(a),10,1
2240 SOUND 4,D(A),20,10,2
2250 SOUND 2,E(A),20,10,3
2260 IF k<>2 THEN 1920
2270 NEXT A
2280 RETURN
2290 FOR a=1 TO 64:IF b(a)<>0 THEN SOUND
1,b(a),c(a),10,1
2300 SOUND 4,D(A),20,10,2
2310 SOUND 2,E(A),20,10,3
2320 IF k<>2 THEN 1920
2330 NEXT
2340 RETURN
2350 FOR a=1 TO 51:IF b(a)<>0 THEN SOUND
1,b(a),c(a),10,1
2360 SOUND 4,D(A),20,10,2
2370 SOUND 2,E(A),20,10,3
2380 IF k<>2 THEN 1920
2390 NEXT
2400 RETURN
2410 k$=LOWERS(INKEY$):IF k$=""THEN RETU
RN
2420 IF k$="" THEN re=REMAIN(0):k=0:RET
URN
2430 RETURN
2440 ad1=HIMEM+740:FOR i=1 TO LEN(mess$)
2450 POKE ad1+5,ASC(MID$(mess$,i,1)):CAL
L ad1
2460 PRINT CHR$(254)CHR$(18)CHR$(8)CHR$(25
55)CHR$(11);
2470 NEXT i
2480 RETURN

```

```

2490 FOR f=3 TO 8:INK f,b:NEXT
2510 RETURN
2520 D1:WINDOW SWAP 0,T:_SOUND 135,100,10
,5:mess$=" PAUSED ":"GOSUB 2440
2530 k$=INKEY$:IF k$<>CHR$(13) THEN 2530
GOSUB 2440:mess$=CHR$(238):PEN 9:T
2540 PEN 1:LOCATE 7,4:mess$=" MEN:
OR f=t TO men:LOCATE f+24,4:GOSUB
2550 PEN 2:WINDOW SWAP 0,T:_SOUND 7,100,10
,5:mess$="PAUSED ":"GOSUB 2440
2560 PEN 2:WINDOW SWAP 0,T:_SOUND 7,100,1
,0:FOR f=1 TO 800
2570 EI:RETURN
2580 CALL BBCAT1:re=REMAIN(0):re=REMAIN(1
) :SOUND 2,200,-1,15,5,2,20:SPEED IN
K 1,T
2590 LOCATE X,Y:OPEN Z:PRINT CHR$(227):LO
CATE ox,oy:PRINT CHR$(227)
2600 SOUND 3,300,-1,10,7:T:APSC18
2610 FOR f=t TO 25:FOR g=6 TO 91:BORDER
B,f:OUT 677B,B,5:OUT 677B,B,9:OUT 677B
2620 a4=(men-2):LOCATE #1,8,4:PRINT#1," "
H-7:IF men>8 THEN CLS:GOTO 198
2630 IF prac THEN 2830
2640 PAPER 5:CLS:WINDOW 6,77,9,T:PAPER
WINDOW 1,28,T,28
2650 PEN 15,6,26:INK 6,7:INK 7,2:SPEED I
VER":GOSUB 2440
2660 GOTO 316
2670 apsc=18:re=REMAIN(0):re=REMAIN(7):I
F prac THEN 2830
2680 a=80:FOR f=320 TO 0 STEP -4:MOVE f
,R,B,310:MOVE B,R,S:MOVE 640,-f,80:DR
AM ,480-a:DRAWR 640,0:MOVE B
,80,5,7:NEXT:f:IF demo THEN 1590

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2700 PAPER 14:PEH 73
2710 FOR f=1 TO 18:LOCATE f,7:PRINT CHR$(246
):LOCATE f,7:PRINT CHR$(246):LOCAT
E 21-f,12:PRINT CHR$(246):NEXT
2720 FOR f=8 TO 11:LOCATE 1,f:PRINT CHR$(246
):NEXT
2730 a$=" BONUS:"+STR$(energy)+" X"+ST
RS$(level)+" :frame=238
2740 mess$=CHR$(238)
2750 PAPER 5:FOR f=2 TO 19:LOCATE f,PE
H 9:mess$=CHR$(frame):SOUND 7,15B,2
B,15,B,2:GOSUB 2440:FOR g=1 TO 200
NEXT g:LOCATE f,9:mess$=MIDS(a,f,1
):PEN 1:GOSUB 2440:frame=4:IF
frame=238 THEN frame=238
2760 NEXT f
2770 a$="TOTAL "+STR$(energy+level):a=L
EN(a$):LOCATE (28-a)/2+1,14:PEH 0:P
RINT STRINGS(a,238)
2780 c1=f:FOR f=(28-a)/2+1 TO (28-a)/2+a:
SOUND 1,f+20,-1,15,4,1:SOUND 4,148
,-1,15,4,1:PEH 0:FOR g=238 TO 245:L
OCATE f,74:PRINT CHR$(g):FOR i=1 TO
50:NEXT g:LOCATE f,74:PEH 2:PRIN
T MIDS(a,g,7):NEXT f
2790 TAG#1:PLDT 800,800,2:a=28:FOR f=1
TO energy+level STEP (energy+level)
/50:MOVE 226,7B:PRINT#1,CINT(f+5c)
,:SOUND 1,a,18,75,B,T:a=a+2:SOUND 4
,a+18,75,B,T:NEXT
2800 scrscl+(energy+level):MOVE 226,7B:PR
INT#1,scs
2810 TAGOFF#1
2820 Level+level+1:IF scs>freeman THEN 2
920 ELSE CLS:GOTO 198
2830 CLS:WINDOW 4,18,2,5:PAPER 14:CLSIWI
ND 1,28,T,28:PEH 13:mess$="PRACTI
CE MODE":LOCATE 5,3:GOSUB 2440
2840 TAG#1:MOVE 226,7B:PRINT#1," "
:TAGOFF#1
2850 PAPER 5:SPEED INK 10,18
2860 PEN 9:LOCATE 7,8:mess$="1 : EXIT":G
OSUB 2440:LOCATE 5,12:mess$="2 : CO
NTINUE":GOSUB 2440
2870 LOCATE 1,19:PEH 8,1,16,8,26,B:PRINT"
PLEASE SELECT 1 OR 2"
2880 k$=INKEY$:IF k$="2" AND men>8 THEN
praclev=praclev+1:INK 9,6:men=3:sc
s=0:CLS:WINDOW SWAP 1,B:GOTO 148
2890 IF k$="2" THEN CLS:INK 9,6:men=3:sc
s=0:WINDOW SWAP 0,T:GOTO 148
2900 IF k$="" THEN 98
2910 GOTO 2880
2920 IF men=3 THEN 2978 ELSE LOCATE 4,18
mess$=CHR$(231)+" ";PEH 9:GOSUB 24
40:PEH 13:mess$="FREE LIFE":GOSUB 2
440:PEH 9:mess$=" "+CHR$(238):GOSUB
2440
2930 freeman=freeman+10000

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LISTING

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2948 men=men+1:SOUND 1,18,-1,15,5,4:SOUND
D 2,58,-1,15,5,4:SOUND 4,188,-1,15,
5,4
2958 WINDOW SWAP 0,1: PEN 9: mess$=CHR$(23
0):FOR f=1 TO men:LOCATE f+2,4:GO
SUB 2440:NEXT:WINDOW SWAP 1,0
2960 FOR f=1 TO 800:BORDER 1 MOD 6:INK 5
,f MOD 6:NEXT:INK 5,b:BORDER b:CLS:
GOTO 198
2970 LOCATE 1,18:bo={(CINT(RND*5)+180)+48
B:mess$="MYSTERY BONUS "+STR$(bo)
:pen 9:GOSUB 2448
2980 sc=sc+bo:freeman=freeman+10000
2990 FOR f=300 TO 8 STEP -18:FOR g=0 TO
11 STEP -18:SOUND 1,g,1,15:SOUND 2,
g+1,1,15:NEXT:g:bor=RND*20:INK 5,bo
:f:BORDER bor:NEXT f
3000 INK 5,b:BORDER b
3010 TAG#1:PLOT 800,800,2:MOVE 226,78:PR
INT#1,sc,:TGOFF#1:CLS
3020 GOTO 198
3030 GOSUB 2498
3040 PAPER 14:PRINT STRINGS(20,24
6):LOCATE 1,20:PRINT STRINGS(20,24
6):
3050 FOR f=2 TO 19:LOCATE 1,f:PRINT CHR
S(246):LOCATE 20,f:PRINT CHR$(246):N
EXT
3060 LOCATE 5,12:PRINT STRINGS(15,246):L
OCATE 5,16:PRINT STRINGS(15,246)
3070 FOR f=4 TO 11:LOCATE 5,f:PRINT CHR
S(246):LOCATE 13,f:PRINT CHR$(246):N
EXT
3080 LOCATE 13,2:PRINT CHR$(246):LOCATE
16,7:PRINT STRINGS(4,246):FOR f=4 T
O 9:LOCATE 9,f:PRINT CHR$(246):NEXT
3090 PAPER 5:Pen 7
3100 FOR f=3 TO 19 STEP 2:LOCATE 1,f:PR
INT CHR$(250):LOCATE f,15:PRINT CHR
S(250):LOCATE f,13:PRINT CHR$(250):
NEXT
3110 FOR f=3 TO 11 STEP 2:LOCATE 3,f:PRI
NT CHR$(250):LOCATE 7,f:PRINT CHR$(250
):LOCATE 11,f:PRINT CHR$(250):NE
XT
3120 FOR f=15 TO 18 STEP 3:LOCATE f,3:PR
INT CHR$(250):LOCATE f,5:PRINT CHR
S(250):LOCATE f,18:PRINT CHR$(250):N
EXT:LOCATE 19,18:PRINT" "
3130 LOCATE 9,11:PRINT CHR$(250)
3140 Pen 15:LOCATE 18,8:PRINT CHR$(252)C
HR$(253)
3150 INK 5,8:INK 7,18:INK 9,24:INK 15,6
INK 14,26:INK 15,15
3160 sx=19:sy=78:Lasers=0:apples=48:pac
=231:b=0:BORDER 0
3170 RETURN
3180 GOSUB 2498
3190 PAPER 14:Pen 13:LOCATE 1,f:PRINT ST
RINGS(20,246):LOCATE 1,20:PRINT STR
INGS(20,246):FOR f=2 TO 19:LOCATE
1,f:PRINT CHR$(246):LOCATE 20,f:PRI
NT CHR$(246):NEXT
3200 FOR f=5 TO 13:LOCATE 10,f:PRINT CHR
S(246):LOCATE 12,f:PRINT CHR$(246):
NEXT
3210 FOR f=3 TO 9:LOCATE 16,f:PRINT CHR
S(246):NEXT:LOCATE 15,3:PRINT CHR$(246)
3220 Pen 12:PAPER 5:LOCATE 13,13:PRINT S
TRINGS(5,249)
3230 Pen 11:LOCATE 5,77:PRINT STRINGS(12
251):LOCATE 10,18:PRINT CHR$(251)C
HR$(251)
3240 FOR f=13 TO 16:LOCATE 5,f:PRINT CHR
S(251):NEXT
3250 Pen 6:LOCATE 8,5:PRINT CHR$(247)CHR
$(247):LOCATE 11,15:PRINT CHR$(247)
LOCATE 2,19:PRINT CHR$(247):LOCATE
19,19:PRINT CHR$(247)
3260 Pen 8:LOCATE 17,2:PRINT STRINGS(3,2
248)
3270 Pen 15:LOCATE 8,6:PRINT CHR$(252)CH
RS(253)
3280 Pen 7:FOR f=7 TO 19 STEP 2:LOCATE f
,f+1:PRINT CHR$(250):LOCATE f,16:PRI
NT CHR$(250):NEXT
3290 FOR f=12 TO 16:LOCATE f,18:PRINT CH
RS(250):NEXT:FOR f=4 TO 12 STEP 2:1
,f+2 TO 12 STEP 2:LOCATE 14,f:PRINT
CHR$(250):NEXT
3300 FOR f=2 TO 8 STEP 2:LOCATE 17,f:PRI
NT CHR$(250):NEXT f
3310 FOR f=5 TO 9 STEP 2:LOCATE 17,f:PRI
NT CHR$(250):NEXT:LOCATE 17,12:PRI
NT CHR$(250):LOCATE 3,6:PRINT CHR$(2
50)" "CHR$(250):LOCATE 3,9:PRINT CH
RS(250)" "CHR$(250):LOCATE 3,11:PRI
NT CHR$(250)" "CHR$(250)
3320 LOCATE 3,14:PRINT CHR$(250):LOCATE
3,17:PRINT CHR$(250)
3330 INK 5,7:INK 6,18:INK 7,2:INK 8,16:1
INK 9,24:INK 17,23:INK 12,7:INK 13,6
INK 14,3:INK 15,5
3340 BORDER 1:b=1:pac=232
3350 Lasers=0:sx=17:sy=10:apples=46:RETU
RN
3360 GOSUB 2498
3370 Pen 8:LOCATE 2,1:PRINT STRINGS(18,2
18,247):LOCATE 9,17:PRINT STRINGS(
3,247):LOCATE 9,18:PRINT CHR$(247)" "
"CHR$(247)
3380 PAPER 14:Pen 13:FOR f=1 TO 20:LOCAT
E 1,f:PRINT CHR$(246):LOCATE 20,f:PR
INT CHR$(246):NEXT:FOR f=4 TO 8 ST
EP 2:LOCATE 18,f:PRINT CHR$(250):NE
XT
3390 PAPER 5:Pen 18:LOCATE 3,4:PRINT STR
INGS(15,238):LOCATE 3,12:PRINT STR
INGS(9,238):LOCATE 6,7:PRINT STR
INGS(9,238):LOCATE 6,74:PRINT STRINGS(
9,238)
3400 FOR f=5 TO 16:LOCATE 3,f:PRINT CHR
S(238):LOCATE 17,f:PRINT CHR$(238):M
EXT:FOR f=8 TO 13:LOCATE 6,f:PRINT
CHR$(238):LOCATE 14,f:PRINT CHR$(23
8):NEXT
3410 Pen 7:FOR f=6 TO 16 STEP 6:LOCATE f
,f:PRINT CHR$(250):LOCATE 9,f:PR
INT CHR$(250):NEXT:FOR f=9 TO 12 STEP
3:LOCATE 6,f:PRINT CHR$(250):LOCAT
E 16,f:PRINT CHR$(250):NEXT
3420 LOCATE 7,9:PRINT CHR$(250)CHR$(250
)
3430 LOCATE 7,8:PRINT STRINGS(7,250):LOC
ATE 7,13:PRINT STRINGS(7,250):LOC
ATE 9 TO 12:LOCATE 7,f:PRINT CHR$(250
):LOCATE 13,f:PRINT CHR$(250):NEXT
3440 PAPER 14:Pen 13:LOCATE 17,18:PRINT
CHR$(246)
3450 Pen 15:PAPER 5:LOCATE 18,19:PRINT C
HR$(252)CHR$(253)
3460 Lasers=0:sx=10:sy=18:pac=232:b=9:BO
RDER 9
3470 apples=34
3480 INK 5,9:INK 6,18:INK 7,16:INK 8,5:I
NK 9,24:INK 10,26:INK 13,17:INK 14,
18:INK 15,15
3490 RETURN
3500 GOSUB 2498
3510 Pen 11:PAPER 5:LOCATE 1,1:PRINT ST
RINGS(20,251):LOCATE 1,20:PRINT STR
INGS(20,251)
3520 Pen 12:PAPER 14:FOR f=2 TO 19:LOCAT
E 1,f:PRINT CHR$(246):LOCATE 20,f:PR
INT CHR$(246):NEXT
3530 Pen 13:LOCATE 4,5:PRINT STRINGS(5,246
):LOCATE 4,4:PRINT STRINGS(5,246):LOC
ATE 3,5:PRINT STRINGS(7,246):LOCATE 3,
6:PRINT STRINGS(7,246):LOCATE 8,7:P
RINT CHR$(246)CHR$(246):LOCATE 8,8:P
RINT CHR$(246)CHR$(246)
3540 FOR f=7 TO 12:LOCATE 3,f:PRINT CHR
S(246)CHR$(246):NEXT:LOCATE 8,11:PRI
NT CHR$(246)CHR$(246):LOCATE 8,12:P
RINT CHR$(246)CHR$(246)
3550 LOCATE 3,13:PRINT STRINGS(7,246):LO
cate 3,14:PRINT STRINGS(7,246):LOC
ATE 4,15:PRINT STRINGS(5,246):LOC
ATE 4,16:PRINT STRINGS(5,246)
3560 FOR f=5 TO 16:LOCATE 11,f:PRINT CHR
S(246)CHR$(246):LOCATE 16,f:PRINT C
HR$(246)CHR$(246):NEXT:FOR f=5 TO 1
0:LOCATE 13,f:PRINT CHR$(246):LOCAT
E 14,f+2:PRINT CHR$(246):LOCATE 15,
f:PRINT CHR$(246):NEXT:LOCATE 12,4:P
RINT CHR$(246)
3570 LOCATE 16,4:PRINT CHR$(246):LOCATE
9,19:PRINT CHR$(246):PAPER 5:Pen 18
:LOCATE 12,3:PRINT CHR$(238):LOCATE
16,3:PRINT CHR$(238):LOCATE 18,7:P
RINT CHR$(238)CHR$(238)
3580 Pen 6:LOCATE 2,19:PRINT CHR$(247):L
OCATE 19,19:PRINT CHR$(247)
3590 Pen 10:LOCATE 2,15:PRINT STRINGS(8
238):LOCATE 2,3:PRINT CHR$(238)CHR
$(238):LOCATE 4,2:PRINT CHR$(238):LO
cate 19,19:PRINT CHR$(238)
3600 Pen 18:LOCATE 10,15:PRINT CHR$(248)C
HR$(248):LOCATE 2,11:PRINT STRINGS(
10,248)
3610 Pen 3:LOCATE 2,17:PRINT STRINGS(18,
154):LOCATE 4,6:PRINT STRINGS(5,154
)
3620 Pen 4:FOR f=2 TO 10:LOCATE 6,f:PRI
NT CHR$(149):LOCATE 9,f:PRINT CHR$(1
49):LOCATE 13,f:PRINT CHR$(149):LOC
ATE 17,f:PRINT CHR$(149):NEXT
3630 FOR f=5 TO 18:LOCATE 3,f:PRINT CHR
$(149):NEXT
3640 Pen 7
3650 LOCATE 4,17:PRINT CHR$(250):LOCATE
7,17:PRINT CHR$(250):FOR f=13 TO 17
STEP 2:LOCATE f,17:PRINT CHR$(250):
NEXT
3660 FOR f=5 TO 11 STEP 2:LOCATE f,13:PR
INT CHR$(250):NEXT:FOR f=13 TO 19 S
TEP 2:LOCATE f,12:PRINT CHR$(250):N
EXT
3670 Pen 4:TO 18 STEP 2:LOCATE 19,f:PRI
NT CHR$(250):NEXT
3680 FOR f=3 TO 9 STEP 2:LOCATE 4,f:PRI
NT CHR$(250):LOCATE 8,f:PRINT CHR$(2
50):LOCATE 11,f:PRINT CHR$(250):LO
ATE 15,f:PRINT CHR$(250):NEXT
3690 Pen 15:LOCATE 2,2:PRINT CHR$(252)CH
RS(253)
3700 Pen 13:LOCATE 18,17:PRINT CHR$(246)C
HR$(246):LOCATE 3,6:PRINT CHR$(246
):LOCATE 9,6:PRINT CHR$(246):PAPER
5
3710 apples=33:Lasers=1:sx=2:sy=19:pac=2
3720 Pen 11:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250)
3730 Pen 12:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3740 Pen 13:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3750 Pen 14:FOR f=1 TO 18 STEP 2:LOCATE
19,f:PRINT CHR$(250):NEXT
3760 Pen 6:FOR f=5 TO 7:LOCATE (7-f)+9,f
:PRINT CHR$(247):NEXT
3770 Pen 11:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3780 Pen 12:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3790 Pen 13:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3800 Pen 14:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3810 Pen 15:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3820 Pen 16:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3830 Pen 17:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3840 Pen 18:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3850 Pen 19:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3860 Pen 20:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3870 Pen 21:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3880 Pen 22:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3890 Pen 23:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3900 Pen 24:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3910 Pen 25:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3920 Pen 26:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3930 Pen 27:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3940 Pen 28:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3950 Pen 29:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3960 Pen 30:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3970 Pen 31:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3980 Pen 32:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
3990 Pen 33:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4000 Pen 34:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4010 Pen 35:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4020 Pen 36:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4030 Pen 37:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4040 Pen 38:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4050 Pen 39:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4060 Pen 40:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4070 Pen 41:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4080 Pen 42:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4090 Pen 43:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4100 Pen 44:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4110 Pen 45:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4120 Pen 46:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4130 Pen 47:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4140 Pen 48:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4150 Pen 49:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4160 Pen 50:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4170 Pen 51:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4180 Pen 52:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4190 Pen 53:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4200 Pen 54:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4210 Pen 55:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4220 Pen 56:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4230 Pen 57:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4240 Pen 58:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4250 Pen 59:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4260 Pen 60:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4270 Pen 61:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4280 Pen 62:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4290 Pen 63:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4300 Pen 64:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4310 Pen 65:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4320 Pen 66:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4330 Pen 67:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4340 Pen 68:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4350 Pen 69:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4360 Pen 70:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4370 Pen 71:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4380 Pen 72:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4390 Pen 73:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4400 Pen 74:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4410 Pen 75:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4420 Pen 76:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4430 Pen 77:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4440 Pen 78:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4450 Pen 79:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4460 Pen 80:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4470 Pen 81:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4480 Pen 82:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4490 Pen 83:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4500 Pen 84:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4510 Pen 85:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4520 Pen 86:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4530 Pen 87:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4540 Pen 88:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4550 Pen 89:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4560 Pen 90:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4570 Pen 91:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4580 Pen 92:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4590 Pen 93:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4600 Pen 94:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4610 Pen 95:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4620 Pen 96:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4630 Pen 97:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4640 Pen 98:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4650 Pen 99:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4660 Pen 100:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4670 Pen 101:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4680 Pen 102:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4690 Pen 103:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4700 Pen 104:LOCATE 18,18:PRINT CHR$(250)C
HR$(250):LOCATE 18,18:PRINT CHR$(250
)
4710 Pen 105:LOCATE 18,18:PRINT CHR$(25
```

LISTING

```

449B FOR f=5 TO 8:LOCATE (8-f)+18,f:PRINT
    T CHR$(250):NEXT:F=5 TO 11 STEP
    4:LOCATE f,5:PRINT CHR$(250):NEXT
450B FOR f=5 TO 9 STEP 4:LOCATE f,2:PRINT
    T CHR$(250):NEXT:LOCATE 13,3:PRINT
    CHR$(250)

451B PEN 15:LOCATE 17,13:PRINT CHR$(252)
    CHR$(253)

452B apples=51:lasers=T:lon1=10:loff1=68
    :lon2=15:loff2=88:link=25

453B b=0:BORDER 0:INK 5,0:INK 3,0:INK 4,
    0:INK 6,6:INK 7,23:INK 9,24:INK 10,
    16:INK 11,14:INK 12,11,14:INK 13,10
    :INK 14,21:INK 15,2

454B af1=16:af2=15:sx=19:sy=19:pac=231
455B RETURN
456B GOSUB 249B

457B PAPER T4: PEN 13:FOR f=5 TO 17 STEP
    4:LOCATE f,18:PRINT CHR$(246):LOCAT
    E f,14:PRINT CHR$(246):NEXT:FOR f=2
    TO 4:LOCATE 4,f:PRINT CHR$(246):NE
    XT:LOCATE 3,4:PRINT CHR$(246):LOCAT
    E 19,3:PRINT CHR$(246)

458B PAPER 5: PEN 8:LOCATE 2,1:PRINT STRI
    NG$(18,248)
459B LOCATE 11,6:PRINT CHR$(248):LOCATE
    18,9:PRINT CHR$(248) "CHR$(248):LO
    CATE 3,11:PRINT CHR$(248):LOCATE 3,
    15:PRINT CHR$(248)

460B PEN 11:LOCATE 9,5:PRINT STRING$(5,2
    51):LOCATE 4,7:PRINT CHR$(251)CHR$(251)
    "CHR$(251)CHR$(251):LOCATE 15
    ,7:PRINT CHR$(251)CHR$(251) "CHR$(251)

461B PEN 12:FOR f=1 TO 15:LOCATE 1,f:PRI
    NT CHR$(249):LOCATE 28,f:PRINT CHR$(
    249):NEXT

462B LOCATE 3,17:PRINT CHR$(249)CHR$(238
    )CHR$(249) "STRING$(3,249)CHR$(238
    )" "CHR$(249) "CHR$(249)CHR$(258)C
    HR$(249) "CHR$(249)CHR$(258)

463B LOCATE 3,12:PRINT CHR$(238)

464B PEN 6:LOCATE 11,5:PRINT CHR$(247):L
    OCATE 9,8:PRINT CHR$(247)CHR$(247)""
    "CHR$(247)CHR$(247):LOCATE 11,17:P
    RINT CHR$(247)

```

```

465B LOCATE 1,20:PRINT STRINGS(28,247):;
FOR f=16 TO 19:LOCATE 1,f:PRINT CHR$(247):;
$C(247):LOCATE 28,f:PRINT CHR$(247):;
NEXT
466B FOR f=18 TO 19:LOCATE 5,f:PRINT CHR$(247):;
$C(247):LOCATE 11,f:PRINT CHR$(247):;
LOCATE 16,f:PRINT CHR$(247):;NEXT
467B PEN 5:LOCATE 5,5:PRINT STRINGS(14,1
56):FOR f=6 TO 14 STEP 4:LOCATE f,1
0:PRINT STRINGS(5,154):LOCATE f,14:
PRINT STRINGS(5,154):;NEXT
468B PEN 4:FOR f=5 TO 17 STEP 4:FOR g=11
TO 13:LOCATE f,g:PRINT CHR$(149):;N
EXT g,f
469B PEN 7:LOCATE 2,2:PRINT CHR$(250):CHR
$(250):LOCATE 2,3:PRINT CHR$(250):CH
RS(250):FOR f=6 TO 16 STEP 5:LOCATE
f,2:PRINT CHR$(250):LOCATE f,4:PRI
NT CHR$(250):;NEXT
470B LOCATE 17,7:PRINT CHR$(250):;LOCATE
18,10:PRINT CHR$(250):;LOCATE 7,12:IP
RINT CHR$(250):;LOCATE 15,12:PRINT C
HR$(250):;FOR f=11 TO 13:LOCATE 11,f
:PRINT CHR$(250):;NEXT

```

```

4710 LOCATE 3,19:PRINT CHR$(250):LOCATE
7,19:PRINT CHR$(250):LOCATE 9,18:PR
INT CHR$(250):LOCATE 13,18:PRINT CH
RS(250):LOCATE 15,19:PRINT CHR$(250
):LOCATE 18,19:PRINT CHR$(250)
4720 PEN 15:LOCATE 18,2:PRINT CHR$(252)C
HRS(253)
4730 lasers=1:lon1=10:loff1=100:lon2=15:
loff2=90:link1=
4740 apples=17:afl1=0:afl2=2:sx=4:sy=9:pac
=233
4750 b=15:BORDER 15:INK 5,15:INK 3,15:IN
K 4,15:INK 6,18:INK 7,7:INK 8,25:IN
K 9,24:INK 10,1:T:INK 11,6:INK 12,1:1
NK 13,8,T:INK 14,12:INK 15,26
4760 RETURN
4770 GOSUB 2498
4780 LOCATE 1,1: PEN 13:PAPER 14:PRINT ST
RINGS$(28,246):FOR f=2 TO 19:LOCATE
1,f:PRINT CHR$(246):LOCATE 28,f:PRE
NT CHR$(246):NEXT:LOCATE 1,20:PRINT
STRINGS$(28,246);
4790 FOR f=5 TO 8:LOCATE 6,f:PRINT CHR$(246):NEXT:LOCATE 6,9:PRINT STRINGS$(4,246):LOCATE 9,18:PRINT STRINGS$(2,246):FOR f=11 TO 13:LOCATE 18,f:PRI
NT CHR$(246):NEXT
4800 FOR f=4 TO 8:LOCATE 11,f:PRINT CHR$(246):NEXT:LOCATE 12,5:PRINT STRING$(4,246):LOCATE .15,6:PRINT CHR$(246
):LOCATE 12,8:PRINT CHR$(246):LOCAT
E 12,9:PRINT STRINGS$(5,246)

```

```

481B PAPER 5:LOCATE 12,11:PRINT CHR$(214)
  )STRING$(3,145)CHR$(215):FOR F=12 TO 13:LOCATE 12,F:PRINT CHR$(143):LOCATE 12,F:PRINT CHR$(143):NEXT:LOCATE 12,14:PRINT CHR$(213)" "CHR$(212)
482B PEN 14:FOR F=12 TO 14:LOCATE (12-F)+9,F:PRINT CHR$(214):LOCATE (12-F)+9,F+1:PRINT CHR$(212):LOCATE (12-F)+4,F+1:PRINT CHR$(214):LOCATE (12-F)+4,F+2:PRINT CHR$(212):NEXT
483B FOR T=13 TO 14:LOCATE 14-T,F:PRINT CHR$(215):LOCATE 14-T,F+1:PRINT CHR$(213):NEXT
484B PEN 12:LOCATE 4,7:PRINT CHR$(249):LOCATE 4,18:PRINT STRING$(5,249):LOCATE 11,17:PRINT STRING$(6,249)
485B PEN 8:LOCATE 8,2:PRINT CHR$(248):LOCATE 9,3:PRINT CHR$(248):LOCATE 14,3:PRINT STRING$(3,248):LOCATE 6,18:PRINT CHR$(248)
486B PEN 6:LOCATE 2,4:PRINT CHR$(247):LOCATE 12,4:PRINT CHR$(247):LOCATE 17,7:PRINT STRING$(2,247):LOCATE 19,1B:PRINT CHR$(247):LOCATE 9,11:PRINT CHR$(247):LOCATE 14,13:PRINT CHR$(247):LOCATE 2,19:PRINT CHR$(247):LOCATE 18,18:PRINT STRING$(2,247)
487B PEN 7:FOR F=11 TO 19 STEP 2:LOCATE 1,F:PRINT CHR$(250):NEXT:FOR F=4 TO 8 STEP 2:LOCATE 19,F:PRINT CHR$(250):NEXT:FOR F=2 TO 11 STEP 3:LOCATE 2,F:PRINT CHR$(250):NEXT
488B FOR F=4 TO 7 STEP 2:LOCATE 8,F:PRINT CHR$(250)" "CHR$(250):LOCATE 7,F+1:PRINT CHR$(250)" "CHR$(250):NEXT:LOCATE 8,8:PRINT CHR$(250)" "CHR$(250)
489B FOR F=13 TO 15 STEP 2:LOCATE F,6:PRINT CHR$(250):LOCATE 14,F:PRINT CHR$(250):NEXT
490B FOR F=12 TO 16 STEP 2:LOCATE F,7:PRINT CHR$(250):NEXT:LOCATE 13,6:PRINT CHR$(250):LOCATE 16,5:PRINT CHR$(250)

```

```

4910 LOCATE 4,2:PRINT CHR$(25B)CHR$(25B)
" "CHR$(25B):LOCATE 5,6:PRINT CHR$(25B)
:LOCATE 8,10:PRINT CHR$(25B):LD
CATE 2,13:PRINT CHR$(25B):LOCATE 4,
12:PRINT CHR$(25B):LOCATE 6,15:PRIN
T CHR$(25B)CHR$(25B)
4928 FOR f=12 TO 16 STEP 2:LOCATE 19,f:P
RINT CHR$(25B):NEXT:f:FOR f=11 TO 17
STEP 3:LOCATE 1,18:PRINT CHR$(25B):N
EXT:LOCATE 11,13:PRINT CHR$(25B):L
OCATE 13,12:PRINT CHR$(25B)" "CHR$(25B)
:LOCATE 13,14:PRINT CHR$(25B)" "
"CHR$(25B)
4938 FOR f=11 TO 15 STEP 2:LOCATE f,16:P
RINT CHR$(25B):LOCATE f+1,18:PRINT
CHR$(25B):NEXT:f:FOR f=3 TO 9 STEP 2:
LOCATE f,17:PRINT CHR$(25B):LOCATE
f+1,19:PRINT CHR$(25B):NEXT
4948 PEN 10:PAPER 14:LOCATE 18,19:PRINT"
LAST SHEET"
4958 PAPER 5:PEN 15:LOCATE 18,9:PRINT CH
RS(252)CHR$(253)
4968 lasers=@:apple$=6@a1=1@a2=3
4978 sa=9:sy=2:pac=23#
4988 SPEED INK 3B,3B:b=t6:BORDER 16:INK
5,16:INK 6,16,25:INK 7,26:INK 8,11,
16:INK 9,24:INK 10,2,6:INK 12,2B:IN
K 15,9:INK 14,1:INK 15,18

```

```

498B RETURN
580B c=3:SOUND 135,B,B,1:LOCATE #1,20,2:
PRINT#1,"":LOCATE #2,20,3:PRINT#1,
"":LOCATE #1,6,4:PRINT#1,"":LOCATE #1,6,5:PRINT#1,"":LOCATE #1,17,4:PRINT#1,"":LOCATE #1,17,5:PRINT#1,""
581B BORDER B:=0:F=0:I=0 TO 15:INK f,B:NEXT
582B L=640:h=320:x=BB:FOR f=0 TO 320 STE
P+4:PLT f,x,c:DRAWR L,B:DRAWR B,h:
DRAWR -L,B:DRAWR B,-h:l=L-8:h=h-4:IK
=x+2:c=c+1:IF c=16 THEN c=3
583B NEXT
584B FOR i=1 TO 100 STEP 4
585B FOR f=15 TO 3 STEP -1:INK f,26:CALL
  BB019:INK f,0:NEXT f
586B SOUND 7,i+20,20,7,B,4:NEXT i
587B CLS
588B INK 3,7:INK 4,26,13:INK 6,2,24
589B LOCATE 3,7:OPEN 3:mess$="CONGRATULAT
IONI!":GOSUB 244B
510B PEN 4:LOCATE 4,8:mess$="MEGA - BOMU
S ":"GOSUB 244B
511B LOCATE 5,11:OPEN 6:mess$="580B POINT
5!":GOSUB 244B
512B TAG#1:PLT 800,800,2:FOR f=0 TO 500
@ STEP 50:MOVE 226,7B:PRINT#1,sc+f:
:SOUND 7,(50000-f)/5,1,15,B,4:NEXT:f
c=s+c:580B

```

```

5150 TAGOFFFFAT
5140 INK 9,24:WINDOW SWAP B,T:messs=CHR$(230):PEN 9:FOR f=1 TO men:LOCATE (f+2)+4,4:60SUB 244B:NEXT:LOCATE 20,2:mes$="1":60SUB 244B:PEH 2:WINDOW SWAP B,1,b=0:CLS
5150 RETURN
5160 RESTORE 516B:CALL BBCA?
5170 FOR a=1 TO 16:READ a1(a),b1(a):NEXT a
5180 DATA 95,38,188,38,186,38,119,128,119,38
5190 DATA 186,38,95,68,89,158
5200 DATA 127,38,134,38,142,38,159,128,159,38
5210 DATA 119,38,186,68,95,158
5220 FOR a=1 TO 16:READ c1(a),d1(a):NEXT a
5230 DATA 239,218,198,38,8,0,0,0,0
5240 DATA 213,218,284,38,0,0,0,0,0
5250 DATA 319,218,213,38,0,0,0,0,0
5260 DATA 239,248,0,0,0,0,0,0,0
5270 FOR a=1 TO 16:READ e1(a):NEXT a
5280 DATA 68,68,68,68,45,45,45,45,65,63,
63,65,68,68,68,68
5290 FOR a=1 TO 16
5300 SOUND 1,a1(a),b1(a)/1.5,18,13
5310 IF c1(a)<>0 THEN SOUND 4,c1(a),d1(a)/1.5,18,12
5320 SOUND 2,e1(a),48,18,13
5330 NEXT
5340 FOR a=1 TO 16:READ a1(a),b1(a):NEXT a
5350 DATA 95,38,188,38,186,38,119,128,119,38
5360 DATA 186,38,95,68,89,158
5370 DATA 127,38,134,38,142,38,159,128,0
5380 DATA 8,8,63,38,119,188
5390 FOR a=1 TO 16
5400 IF b1(a)<>0 THEN SOUND 1,a1(a),b1(a)/1.5,18,13
5410 IF c1(a)<>0 THEN SOUND 4,c1(a),d1(a)/1.5,18,12
5420 SOUND 2,e1(a),48,18,13

```

```

544B NEXT
544B IF sc>hi(9) THEN 579B
545B FOR f=1 TO 1000:NEXT
546B INK 0,0:BORDER B:MODE 1:INK T,B:INK
    2,B:INK 3,26:WINDOW 1,4B,1,13:PAPE
    R 2:CLS
547B WINDOW 1,4B,1,25: PEN 1:PRINT CHR$(2
    3)CHR$(1):
548B FOR f=9 TO B STEP -1:IF sc>hi(f) TH
    EN NEXT
549B f=f+1
550B FOR g=9 TO f+1 STEP -1:hi(g)=hi(g-1)
    :hi$(g)=hi$(g-1):NEXT
551B hi$(f)=SPACES(20):hi(f)=sc
552B FOR g=B TO 9:LOCATE 5,g+3:PRINT g+1
    :LOCATE 9,g+3:PRINT hi$(g):LOCATE 3
    ,g+3:PRINT hi$(g):NEXT
553B FOR g=B TO 639 STEP 4:MOVE g,192:DR
    AMR 0,2BB,Z:MOVE 639-g,192:DRAMR 0,
    2BB:NEXT
554B INK 1,1:INK 2,11
555B PAPER 1:LOCATE 9,f45:PRINT hi$(f);:I
    hi$(f)=""
556B LOCATE 1,18:PAPER 2: PEN 1:PRINT "WEL
    L DONE YOU HAVE ONE OF TODAYS HIGHE
    STSCORES. PLEASE ENTER YOUR NAME US
    ING THE LEFT, RIGHT AND FIRE CO
    NTROLS. "

```

```

557W PAPER 1:TYPE 2:LOCATE 1,25:a$="ABCDE
FGHIJKLMNOPQRSTUVWXYZ. SPC RUB END
":PRINT LEFT$(a$,n2):PEN 3:PRINT R
IGHT$(a$,12);
558B s1=HIMEM+198:sr!=HIMEM+252:POKE s1
!1,128:POKE s1!+2,199:POKE sr!+7,1
28:POKE sr!+2,199
559B LOCATE 20,23:PEN 3:PAPER 0:PRINT CH
RS(231)
560B p>28:d=0:pac=231:frame=0
561B l1=INKEY(71):l2=INKEY(74):r1=INKEY(
63):r2=INKEY(75):f1=INKEY(18):f2=IN
KEY(76)
562B LOCATE 20,23:PRINT CHR$(pac+(frame*
4)):frame=(1-frame)
563B IF r1<>-1 OR r2<>-1 THEN CALL s1!:L
OCATE 20,23:pac=230:p=p+1:IF p>48 T
HEN p=1
564B IF l1<>-1 OR l2<>-1 THEN CALL sr:p=
ac=231:p=p-1:IF p<1 THEN p=48
565B IF f1<>-1 OR f2<>-1 THEN 568B
566B FOR g=1 TO 100:NEXT .
567B GOTO 561B
568B SOUND 7,150,10,15,0,2:IF p>27 THEN
573B ELSE e$=MID$(a$,p,1)
569B h$(f)=h$(f)+e$

```

```

570B LOCATE 9,f+3:PAPER T:PEM Z:PRINT hi
S(f)SPACES(2B-LEN(h$(f))):PAPER B
:PEM 3:IF LEN(h$(f))=2B THEN 577B
571B FOR g=1 TO 700:NEXT
572B GOTO 561B
573B IF p<32 THEM e$="" :GOTO 569B

```

```

5748 IF p>31 AND p<36 AND hi$(f)<>"" THE
    N hi$(f)=LEFT$(hi$(f),LEN(hi$(f))-1
    J:LOCATE 9,T+3:GOTO 5780
5750 IF p>35 THEN 5770
5760 GOTO 5710
5770 LOCATE 9,p+3:PRINT hi$(f)SPACE$(2B-
    LEN(hi$(f))):WINDOW 1,4B,13,25:CLS:
    WINDOW T,4B,,13
5780 GOTO 5820
5790 INK B,B:BORDER B:MODE T:INK 1,B:INK
    2,B:INK 3,26:WINDOW 1,4B,13,13:PAPER
    R,2:CLS
5800 WINDOW T,4B,13,25:Pen T:PRINT CHR$(2
    3)CHR$(1);
5810 FOR g=0 TO 9:LOCATE 5,g+3:PRINT g+1
    :LOCATE 9,g+3:PRINT hi$(g):LOCATE 5
    B,g+3:PRINT hi$(g):NEXT:FOR g=8 TO 6
    39 STEP 4:MOVE 0,192:DRAWR 0,288,2:
    MOVE 639-g,192:DRAWR 0,288:NEXT:INK
    1,1:INK 2,1
5820 PRINT CHR$(23)CHR$(0)::PAPER 0:FOR
    F=1 TO 5:LOCATE 1,F:PRINT CHR$(17):
    NEXT
5830 LOCATE 1B,23:Pen 3:PRINT "PRESS FIRE
    TO CONTINUE"
5840 RESTORE 5848
5850 ENV 1,1B,-1,1B
5860 ENV 2,5,1,T,15,-1,2B
5870 ENV 3,15,-1,4
5880 FOR a=1 TO 88:READ a1(a):NEXT a
5890 DATA 6B2,3B1,6B2,3B1,6B2,3B1,6B2,3B
    1,6B2,5B1,6B2,3B1,6B2,3B1,6B2,3B1,6
    B2,3B1,6B2,3B1,6B2,5B1,6B2,3B1,716,
    35B,716,35B,716,35B,716,35B,8B4,4B2
    ,8B4,4B2,8B4,4B2,8B4,4B2,9B2,451,9B
    2,451,9B2,451,9B2,451,9B2,451,9B2,4
    51,9B2,451,9B2,451,6B2,3B1,6B2,3B1,
    6B2,3
5900 DATA 6B2,5B1
5910 DATA 956,47B,956,47B,956,47B,956,47
    B,8,716,35B,716,35B,716,35B,716,35B,8
    B4,4B2,8B4,4B2,8B4,4B2,8B4,4B2
5920 FOR a=1 TO 88:READ b1(a),c1(a):NEXT
    'a
5930 DATA 8,25,119,25,119,12,5,119,25,11
    9,37,5,134,25,159,25,158,25,8,8,179
    ,75,28T,15B,8,8,8,8,8,8,8,8,8,8,8,8
    940 DATA 8,8,119,25,119,12,5,119,25,119
    ,37,5,134,25,159,25,158,25,8,8,159,
    75,179,15B,8,8,8,8,8,8,8,8,8,8,8,8,8
    950 DATA 8,8,15B,25,15B,12,5,15B,25,15B
    ,37,5,15B,25,159,25,158,25,8,8,159,
    75,179,275,8,8,8,8,8,8,8,8,8,8,8,8,8,8
    25,25

```

Fischermann, Thomas (1985): The Castle. In: HC – Mein Home-Computer, Ausg. 7/1985 (Juli), S. 82-85.

The Castle

Mit großen Steinen versucht Ritter Eduard, seine Burg gegen die Eindringlinge zu schützen
(Atari 800XL)

Ritter Eduard, der letzte Bewohner einer Ritterburg, muß seinen Wohnsitz gegen heranrückende Krieger verteidigen, die die Burg erobern wollen. Als die Gegner beginnen, mit Hilfe von großen Leitern die Mauern zu erklettern, bleibt Eduard nur noch eine Möglichkeit:

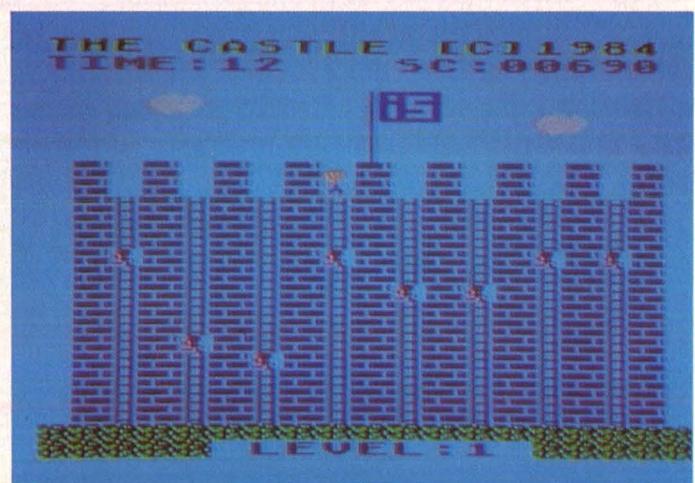
Er muß große Steine herunterwerfen, damit die getroffenen Gegner von ihren Leitern fallen und wieder neu anfangen müssen hochzuklettern.

Zu Eduards Leidwesen kann er aber nur jeweils einen der schweren Steine

gleichzeitig tragen; nach jedem heruntergeworfenen Stein muß er wieder einen neuen von dem Steinhaufen holen, der hinter der linken Burgzinne versteckt ist – das kostet Zeit.

Hat Eduard 150 Zeiteinheiten (links oben angezeigt) lang verhindert, daß einer der Angreifer die Oberkante der Mauer erreicht, kommt er in den nächsten Spiel-Level; die Angreifer klettern nun schneller.

Erst wenn Ritter Eduard 6 Level durchgestanden hat, geben die Krieger auf und



das Spiel ist gewonnen. Mit der START-Taste kann man das Spiel jederzeit abbrechen. Beim Abtippen muß darauf geachtet werden, daß PLR \$ die erste Variable ist, die eingegeben wird, sonst läuft nämlich gar nichts an dem Spiel korrekt.

Am besten ist es, wenn man vor dem Abtippen einen Kaltstart durchführt und dann eingibt:
PRINT PLR \$.
Es erscheint ein Error; nun kann das Programm eingegeben werden.

Thomas Fischermann

ZEILEN	KOMMENTAR
1 – 9	Programmkopf
10 – 70	Programmvorbereitung
80 – 120	Hauptschleife, von der aus bestimmte Subs angesprungen werden
130 – 210	Bewegung von Ritter Eduard
220 – 250	Bewegung der Angreifer
260 – 390	ein Stein wird heruntergeworfen
400 – 770	die beiden Zeichensätze werden umdefiniert
780 – 820	PLR \$ wird gepointet
830 – 930	Player-Shapes einlesen
940 – 1010	VBI-Musik vorbereiten
1020 – 1190	Playfield zeichnen
1200 – 1340	Die Angreifer erscheinen
1350 – 1420	Ritter Eduard erscheint
1430 – 1530	Level gewonnen
1540 – 1630	alle Level gewonnen
1640 – 1710	Spiel verloren
1720 – 1830	Titel

Programmstruktur

Variablenliste

VARIABLE	BEDEUTUNG
PLR \$	wird in die PM-Area gepointet
S, V, OFF P1 \$, p2 \$, ST \$, F \$	werden zum Pointen von PLR \$ gebraucht Shapes
LVL	Level
TIME	übrige Zeiteinheiten
SCORE	Punktestand
G ()	y-Position der Angreifer
XP	x-Position von Ritter Eduard
STONE	Flagwert (0: kein Stein; 1: Stein geholt)
CH, CH1, CH2	Charactersetadressen
PM	Page (Hibyte) für PM-Area
PB	Startadresse für die PM-Area
DL	Startadresse der Display-List
LO, HI	werden gebraucht, um einen 16-bit-Wert in zwei 8-bit-Werte umzuwandeln
I1, I2, I3	Schleifen
LL \$, FF, B, A, LL	Hilfsvariablen

```

10 REM *** Preparation ***
20 DIM PLR$(1024), LL$(20), G(17)
30 FF=3:LVL=1:TIME=150:SCORE=0
40 GOSUB 480:GOSUB 780:GOSUB 830
50 GOSUB 940
60 FOR I1=3 TO 17 STEP 2:G(I1)=21:NEXT I1
70 GOSUB 1020:GOSUB 1200:GOSUB 1350
80 REM *** Main Loop ***
90 GOSUB 220:FOR I1=1 TO 8-LVL:GOSUB 130:NEXT I1
100 TIME=INT((TIME-2+LVL/5)):IF TIME<1 THEN POSITION 6,1:? #6;0:GOSUB 1430
110 SCORE=SCORE+LVL*10:POSITION 6,1:? #6;TIME;" ":(POSITION 19-LEN(STR$(SCORE))):1:? #6;SCORE
120 GOTO 90
130 REM *** Player Movement ***
140 IF PEEK(53279)=6 THEN FF=3:LVL=1:TIME=150:SCORE=0:GOTO 60
150 IF STICK(0)=15 THEN 190
160 SOUND 0,255,10,4:SOUND 0,0,0,0
170 HP=HP+8*(STICK(0)=7 AND HP<169)-8*(STICK(0)=11 AND HP>71)
180 POKE 53248,HP:POKE 53249,HP
190 IF STRIG(0)=0 AND STONE AND (XP-48)/16<>INT((XP-48)/16) THEN GOSUB 260
200 IF HP=64 AND STONE=0 THEN STONE=1:FOR I2=1 TO 20:SOUND 0,20,10,4:SOUND 0,0,0,0:NEXT I2
210 RETURN
220 REM *** Movement ***
230 POKE 756,CH1+2*(PEEK(756)=CH1):FF=FF+2*INT(RND(0)*4):IF FF>17 THEN FF=3
240 POSITION FF,G(FF):? #6;"&":G(FF)=G(FF)-1:IF G(FF)=8 THEN POP :GOTO 1640
250 POSITION FF,G(FF):? #6;CHR$(136):RETURN
260 REM *** A stone is thrown ***
270 STONE=0:POKE 623,1
280 POKE 53278,0:POKE 53258,HP
290 FOR I1=100 TO 210 STEP 4:PLR$(512+

```

```

I1,524+I1)=5T$ 
300 IF PEEK(53254)>7 THEN 330
310 NEXT I1
320 GOTO 370
330 FOR I2=100 TO 200 STEP 10:SOUND 0,I2,12,15:NEXT I2:SOUND 0,0,0,0
340 FOR I1=G((XP-48)/8)+1 TO 21:POSITION (XP-48)/8,I1-1:? #6;"&"
350 IF G((XP-48)/8)<>21 THEN POSITION (XP-48)/8,I1:? #6;CHR$(136):NEXT I1:FOR I2=1 TO 5:NEXT I2:G((XP-48)/8)=21
360 POSITION (XP-48)/8,21:? #6;CHR$(136)
370 PLR$(512)=CHR$(0):PLR$(768)=CHR$(0):PLR$(513)=PLR$(512)
380 POKE 53258,0:POKE 623,8
390 RETURN
400 REM *** CHset ***
410 POKE 186,PEEK(186)-24:GRAPHICS 0
420 GOSUB 1720
430 CH1=(PEEK(186)+16)*256:CH2=CH1+512:CH=PEEK(756)*256
440 FOR I1=12*8 TO 62*8:POKE CH1+I1,PEEK(CH+I1):POKE CH2+I1,PEEK(CH+I1):NEXT I1
450 RESTORE 460
460 DATA 0,0,0,0,0,0,0,0
470 DATA 253,253,253,0,223,223,223,0
480 DATA 0,6,31,63,127,127,127,127
490 DATA 63,38,12,0,0,0,0,0
500 DATA 0,0,96,240,248,248,248,248
510 DATA 224,192,0,0,0,0,0,0
520 DATA 165,165,189,36,165,165,189,36
530 DATA 221,247,198,111,253,183,238,123
540 DATA 56,56,56,80,56,20,104,12
550 DATA 56,56,56,16,120,20,40,68
560 DATA 56,56,56,84,56,16,40,68
570 DATA 56,56,56,16,124,16,108,0
580 DATA 56,56,56,16,84,56,16,16
590 DATA 16,16,16,16,16,16,16,16
600 FOR I1=0 TO 14*8:READ B:POKE CH1+I1

```

```

1,B:NEXT I1
610 RESTORE 620
620 DATA 0,0,0,0,0,0,0,0,0
630 DATA 253,253,253,0,223,223,223,0
640 DATA 0,6,31,63,127,127,127,127
650 DATA 63,38,12,0,0,0,0,0
660 DATA 0,0,96,248,248,248,248,248
670 DATA 224,192,0,0,0,0,0,0
680 DATA 165,165,189,36,165,165,189,36
690 DATA 221,247,190,111,253,183,238,1
23
700 DATA 56,56,56,28,56,86,44,96
710 DATA 56,56,56,18,60,86,24,48
720 DATA 56,56,56,84,56,16,48,68
730 DATA 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
740 DATA 16,16,16,16,16,16,16,16
750 FOR I1=0 TO 14*8:READ B:POKE CH2+I
1,B:NEXT I1
760 CH1=CH1/256:CH2=CH2/256
770 RETURN
780 REM *** Point PLRS to PM-RAM ***
790 PM=PEEK(106):PB=PM*256
800 S=PEEK(140)+256*PEEK(141):V=PEEK(1
34)+256*PEEK(135)
810 OFF=PB+1024-S:HI=INT(OFF/256):LO=0
FF-HI*256
820 POKE V+2,LO:POKE V+3,HI:RETURN
830 REM *** Prepare Player ***
840 DIM P1$(12),P2$(12),ST$(14),F$(14)
850 RESTORE 850:DATA 56,124,84,124,56,
16,56,68,0,0,0,108
860 FOR I1=1 TO 12:READ B:P1$(I1)=CHR$(
B):NEXT I1
870 RESTORE 870:DATA 0,0,0,0,0,0,56,84
,16,56,48,108
880 FOR I1=1 TO 12:READ B:P2$(I1)=CHR$(
B):NEXT I1
890 RESTORE 890:DATA 0,0,0,0,28,62,62,
62,62,28,0,0,0,0
900 FOR I1=1 TO 14:READ B:ST$(I1)=CHR$(
B):NEXT I1
910 RESTORE 910:DATA 127,127,81,81,119
,119,81,81,93,93,81,81,127,127
920 FOR I1=1 TO 14:READ B:F$(I1)=CHR$(
B):NEXT I1
930 RETURN
940 REM *** Prepare Music ***
950 RESTORE 970:FOR I=1536 TO 1646:REA
D A:POKE I,A:NEXT I
960 POKE 550,0:POKE 551,6:POKE 1554,16
3:POKE 1577,6
970 DATA 104,72,174,46,6,189,47,6,141,
6,210,24,105,1,141,4,210,169,174,141,5
,210
980 DATA 141,7,210,238,46,6,173,46,6,2
81,64,208,5,169,0,141,46,6,169,18,141,
24,2,96
990 DATA 0,108,129,162,216,193,172,162
,216,168,129,162,216,193,172,162,216,1
68,129,162,216,162,216,81,145,81,86
1000 DATA 97,216,168,216,108,129,108,1
15,122,216,122,216,122,216,108,122,129
,216,129,216,129,216,122,129,145,216
1010 DATA 145,216,172,216,172,216,145,
216,162,216,162,162,162
1020 REM *** Setup Playfield ***
1030 GRAPHICS 17:POKE 559,0
1040 SETCOLOR 0,0,6:SETCOLOR 1,0,14:SE
TCOLOR 2,12,6:SETCOLOR 3,3,6
1050 POSITION 1,0:? #6;"THE CASTLE ICD"
1060 POSITION 1,1:? #6;"TIME:";TIME;""
SC:000000"
1070 COLOR 45:PLOT 10,3:DRAWTO 10,6
1080 POSITION 4,3:? #6;CHR$(2);CHR$(4)
1090 POSITION 4,4:? #6;CHR$(3);CHR$(5)
1100 POSITION 15,4:? #6;CHR$(2);CHR$(4
)
1110 POSITION 15,5:? #6;CHR$(3);CHR$(5
)
1120 POSITION 2,7:? #6;"! ! ! ! ! ! !
! !":POSITION 2,8:? #6;"! ! ! ! ! ! !
! !"
1130 FOR I1=9 TO 21:POSITION 2,I1:? #6
;"!!!!!!!!!!!!!!":NEXT I1
1140 POSITION 1,22:? #6;""
██████████":REM 19*CHR$(167)
1150 POSITION 1,23:? #6;"██████████"
██████████":REM S.O.
1160 PLR$(1)=CHR$(0):PLR$(1024)=CHR$(0
):PLR$(2)=PLR$
1170 PLR$(768+57,768+71)=F$:POKE 53259
,1:POKE 53251,131:POKE 707,118
1180 POKE 756,CH1
1190 RETURN
1200 REM *** The enemy comes ***
1210 POKE 1554,165:POKE 1577,9:POKE 53
6,1:SOUND 0,0,0,0
1220 SETCOLOR 4,8,12:POKE 559,62:POKE
53277,2:POKE 54279,PM
1230 FOR I1=4 TO 18 STEP 2:FOR I2=19 T
0 I1 STEP -1:POKE 756,CH1+2*(PEEK(756)
-CH1)
1240 LOCATE I2,21,LL:POSITION I2,21:?#
6;CHR$(137)
1250 SOUND 0,100,10,4:SOUND 0,0,0,0:FO
R I3=1 TO 10:NEXT I3:POSITION I2,21:?#
6;CHR$(LL);
1260 NEXT I2:POSITION I2,21:? #6;CHR$(1
38):FOR I2=1 TO 5:NEXT I2
1270 NEXT I1
1280 FOR I1=1 TO 50:NEXT I1
1290 FOR I1=20 TO 9 STEP -1:FOR I2=3 T
0 17 STEP 2
1300 POSITION I2,I1:? #6;CHR$(38):NEXT
I2:FOR I2=1 TO 10:NEXT I2
1310 NEXT I1
1320 POSITION 3,23:? #6;"START TO BEG
IN"
1330 IF PEEK(53279)<>6 THEN 1330
1340 POSITION 3,23:? #6;""
█ LEVEL:1 █
█":RETURN
1350 REM *** Setup Player ***
1360 POKE 53248,0:POKE 53249,0
1370 POKE 704,42:POKE 705,118:POKE 706
,6:POKE 623,8
1380 PLR$(92,104)=P1$:PLR$(256+92,256+
104)=P2$
1390 FOR I1=64 TO 136 STEP 2:XP=I1:POK
E 53248,XP:POKE 53249,XP:SOUND 0,II,10
,4:NEXT I1:SOUND 0,0,0,0
1400 FOR I1=1 TO 10:NEXT I1
1410 POKE 536,1
1420 RETURN
1430 REM *** Level won ***
1440 POKE 536,0:SOUND 2,0,0,0:SOUND 3
,0,0,0
1450 POSITION 4,23:? #6;" ";LVL;"LEVE
L WON "

```

