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ritten by Neil Mottershead, Simon Brattel and

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ZX Spectrum 48K

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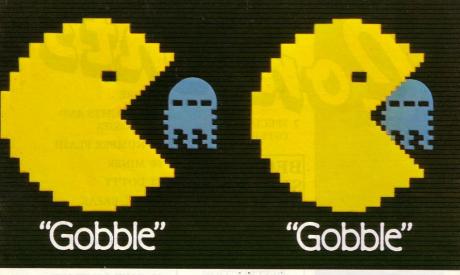
Instructions for graphics characters are printed in lower-case letters in our listings. They are enclosed by brackets and separated by colons to distinguish them and the brackets and colons should not be entered.

Inverse characters are represented by the letter "i" and graphics characters by "g". Thus an inverse

would be represented by "way a graphics to be by "gw", and an inverse graphics W by "gw". Spaces are represented by "sp" an inverse goal mineres by "isp". Whenever any character is to be used in shown before its, together with a multiplication sign. Thus "6*isp" means six inverse spaces and "(g4:4*i4:g3)" would be entered as a graphic four, followed by an inverse four repeated four times, followed by a graphics three.

Where whole words are to be written in inverse letters they appear in the listings as lower-case letters. Letters to be entered in graphics mode on the Spectrum are underlined.

Inverse characters may be entered on the ZX-81 by changing to graphics mode and then typing the appropriate characters and on the Spectrum by changing to inverse video and typing the appropriate letters. Graphics characters may be entered on the ZX-81 by changing to graphics mode and then pressing symbol shift while the appropriate characters are entered. On the Spectrum graphics characters may be obtained by changing to graphics mode and then pressing the appropriate character. Userdefined graphics will appear as normal letters until the program has been RUN.



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MOONLA

5 LET high=0

8 GO SUB 9000 9 GO SUB 8000

10 BORDER 0: PAPER 0: 1NK 7: C

12 LET 1=1/100: LET fuel=20 15 LET lives=3: LET saved=0

20 LET a=1: LET b=15

20 LET DAW-THI (DND-424)

21 LET Pad=INT (RND*24+1): IF Pad<6 THEN GO TO 21 24 FOR n=1 TO 25

25 LET c=INT (RND*254): LET d= INT (RND*120)+40

26 PLOT BRIGHT 1;c,d

28 NEXT n

30 FOR n=18 TO 21

31 PRINT INK 4; BRIGHT 1;AT n ,0;"(32*isp)"

32 NEXT n

33 PRINT 1NK 4; BRIGHT 1)AT 1
7,0;"(5*isp)";AT 16,0;"(3*isp)";
AT 15,0;"(2*isp)";AT 14,0;"(isp)

34 PRINT INK 4; BRIGHT 1;AT 17,28; "(4*isp)";AT 16,30; "(2*isp)

35 PRINT INK 2; BRIGHT 1; PAP ER 4; OVER 0; AT 18; Pad; "(3*193)" 36 FOR P=0 TO 2

36 FOR P=0 TO 2 37 LET f=INT (RND*14)+2: LET 9

=INT (RND*29)+1 38 PRINT AT f.g, INK 3, BRIGHT

39 NEXT P: REM ***MAIN*LOUP***
40 PRINT AT a,b; INK 5;"3"

41 PRINT AT 0.0; "FUEL "; INT fu el: IF fuel <= 7 THEN PRINT AT 0; 0; FLASH 1; "FUEL "; INT fuel 42 PRINT AT 0,10; " LIVES "; li ves; AT 0,20; " SAVED "; saved

43 BEEP 1,50 44 LET a=a+1: LET fuel=fuel-.2

45 PRINT AT a-1,b;" "

60 IF INKEY = "5" AND 6>0 THEN LET b=b-1: PRINT AT a, b+1;" "

80 IF INKEY#="8" AND b<31 THEN LET b=b+1: PRINT AT a,b-1;" " 105 IF fuel<=0 THEN GO TO 1000

110 IF ATTR (a,b)=68 THEN GO T

115 IF ATTR (a,b)=71 THEN GO T O 1000

120 IF ATTR (a,b)=98 THEN GO T O 2000

125 IF ATTR (a,b)=67 THEN LET fuel=fuel+5: BEEP .5,25: BEEP .5,36

130 GO TO 40

1000 PRINT AT a,b; PAPER 2; FLAS H 1;"b"

1020 BEEP 1,-12: BEEP .6,-12: BEEP .3,-12: BEEP .6,-9: BEEP .3,-10: BEEP .57,-10: BEEP .3,-12: BEEP .4,-13: BEEP .4

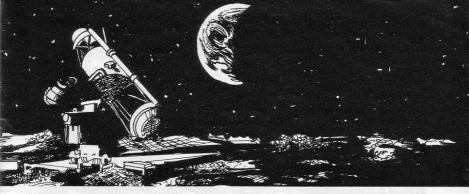
1030 LET lives=lives-1

1035 IF fuel<=0 THEN GO TO 1054 1045 IF lives<=0 THEN GO TO 105

1050 CLS : GO TO 20

4

1054 CLS 1055 IF saved>h19h THEN LET h19 h=saved



PASSENGER RESCUE was written for the 16K Spectrum by Steven Brown of Epsom, Surrey. Make a successful landing on the moon and pick up your passenger who awaits rescue. Hit the fuel pods when your supply runs low but avoid the hostile asteroids as they attempt to sabotage your mission.

1056 PRINT AT 18,6; PAPER 6; INV ERSE 1; INK 2; "YOUR HIGH SCORE I S ";high

1057 PRINT AT 16,8; INK 4; INVER SE 1; "YOU SAVED "; saved; " MEN" 1500 PRINT PAPER 2; INK 7; FLAS H 1)AT 10,11; "GAME OVER": INPUT "Another game y/n ?";a\$

1510 IF as="9" THEN GO TO 9

1520 STOP

2005 PRINT AT a-1,b; INK 5; "a" 2006 FOR m=27 TO b+1 STEP -1

2007 PRINT AT 17,m+1;" " 2010 PRINT AT 17,m;"c"

2020 BEEP .1,30 2030 NEXT m

2035 PRINT AT 17,m+1;" " 2040 PRINT AT a-1,b; INK 5; "a"

2050 BEEP .4,6: BEEP .3,6: BEEP .8,8

2060 LET saved=saved+1

2065 CLS

2070 GO TO 20

8000 BORDER 1: PAPER 1: INK 5: C

8010 PRINT AT 0,10; INK 2; BRIGH T 1) "MOONLANDER"

8020 PRINT ""You are the Pilot

MOUNLANDER 1. It is your Job to rescue a team o f explorers from an unknown Pl anet. Your fuel supply is rat

her low, but if you manage to hit a fuel Pod you will 9ain extra fuel."

"You must dodge the 8030 PRINT stars and land on the red lan ding Pad. Pell DEATH."

otherwise it will s instant"; FLASH 1;"

8040 PRINT INK 4; INVERSE 1;''" CONTROLS ARE: "

8050 PRINT "508 - Left + Right" INK 2; INVERSE 1; PA 8070 PRINT

PER 6; "PRESS ANY KEY TO PLAY" 8080 PAUSE 0

8090 CLS

8510 INPUT "ENTER SKILL LEVEL 1 to 9 EASIEST"; 1

8515 IF 1<0 OR 1>9 THEN

510

8520 RETURN

9000 FOR n=0 TO 7

9010 READ a: POKE USR "a"+n,a 9020 NEXT m

9030 DATA 60,255,60,0,126,255,21 9,195

9040 FOR n=0 TO 7

9050 READ a: PUKE USR "b"+n/a 9060 NEXT n

9070 DATA 137,73,44,231,24,44,74 , 137

9080 FOR n=0 TO 7

9090 READ a: POKE USR "c"+n,a

9100 NEXT n

9110 DATA 14,14,4,30,5,12,19,17

9120 FOR n=0 TO 7

9130 READ a: PUKE USR "d"+n/a 9140 NEXT n

9150 DATA 24,60,126,255,255,126, 66,24

9500 RETURN



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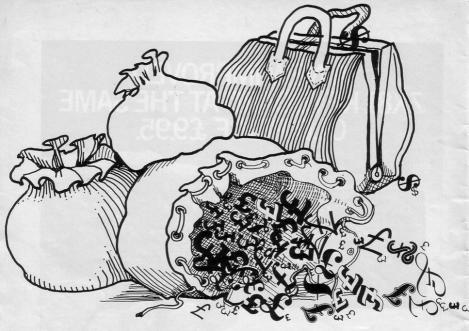
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ONEY BAGS was written by R Smith of Scunthorpe, South Humberside. Race from your starting position to the "H", jumping the barrels using "K" and jumping for the money bags to collect extra points. Use "M" to go straight ahead, and "Z" to go backwards. You score in pounds and gain an extra life on accumulating £1,500.

Money Bags is for the 16K Spectrum.

1 PAPER 0: INK 4: BORDER 0:C LS

2 GO SUB 120

3 LET hi=3500: LET h#="SPECTR

4 POKE 23658.0: LET 1=3: LET LET t=0 5 LET a=1+INT (RND#28): LET 9

=19: LET x=0 6 CLS

7 IF t>=100 THEN PRINT AT 2, 31; "b"

10 PLOT 0,15: DRAW 255,0 20 PLOT 0,87: DRAW 255,0 30 PLOT 0,135: DRAW 255,0

40 FOR n=11 TO 19: PRINT AT n, #) INK 2)"c": NEXT n 50 FOR n=5 TO 10: PRINT AT n,(#/#+10); INK 2,"c": NEXT n

55 PRINT INK 6, AT 3, (a/a+15)

"bb" 60 GU SUB 250 70 PRINT AT 3,31;"H"

80 IF RND>.3 THEN GO SUB 200 90 PRINT AT 0.0; "Money=#";t;"
Lives=";l'"Hi score=#";hi;" By 1 hs

"; AT 19 100 PRINT AT 18, a-1;" 180 PRINT 8T 18.3=1)" ";RT 19
"1" ";AT 9.(2*49*)" ";RT 18
(2*4*10)" "; IKK 2;RT 18.3;"C
"*TAB 3."C";MT 9.(3*4*10);"C"*TA
8.(2*4*10);"C"; GO TO 60
110 PRINT 8T 3.**1"" LET tet
180 BEEP ,01:0 BEEP .81.2; BE

P .01.4: GO TO 5 120 FOR n=USR "4" TO USR "c"+7 130 READ & POKE n.a. NEXT n 140 DATA 56,56,56,16,124,16,40, 108, 126, 60, 102, 219, 143, 223, 195, 1

26, 129, 255, 129, 129, 129, 255, 129, 1 29 150 RETURN

200 LET b=y: FOR n=30 TO 1 STEP -1: PRINT AT b, n, " Ø " GO SUB 250: NEXT n 210 RETURN

250 IF INKEY "K" THEN LET Y=Y -1: LET as="k": PRINT AT 9+1,x;"

251 IF SCREEN\$ (9,x+2)="0" THEN LET l=l-1: BEEP .5.50 252 IF t=1500 THEN LET l=+1 253 IF ATTR (9-1,x+1)=2 THEN L

ET 9=9-3: GO TO 253

254 IF ATTR (y,x+2)=6 THEN LET t=t+50' BEEP .1.0 255 IF SCREEN® (y-1,x+2)="H" TH

255 IF SUREELY EN GO TO 110 256 IF 1<=0 THEN GO TO 300 260 PRINT AT Y.X;" a ";AT Y-1,X

270 IF as="k" THEN LET x=x+1:

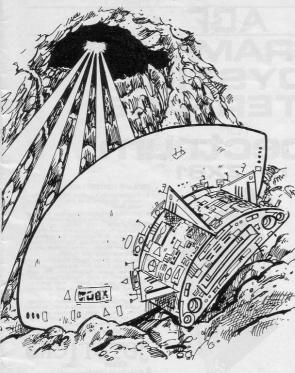
LET w=+1: LET ##=" 280 LET x=x+(INKEY\$="m" AND x<2 9)-(INKEY\$="z" AND x>1)

290 RETURN 300 CLS : POKE 23658,8

310 IF t>hi THEN LET hi=t: PRI NT AT 10,5) FLASH 1)"YOU HAVE THE HIGH ";AT 11,5) INVERSE 1)"SCO RE! PLEASE ENTER YOR NAME AFTER THE TONE.": PAUSE 100: BEEP 1,-1 INPUT hs

320 CLS ' PRINT AT 6,6;"Your sc ore=#";t''TAB 8;"High score=#";h ''TAB 10;"By "; FLASH 1;h# 330 INPUT '''"Rnother 90 (Y/N) 16 IF 6 = "Y" THEN GO TO 4

340 IF b\$<>"N" THEN GO TO 330 360 STOP



100 INK 7

,165

w,0

v=x-1

17) "LIVES ") lives

3 GO SUB 7000 10 LET score=0 12 LET lives=3

20 BORDER 0: PAPER 0: CLS : IN

40 INK 4: PRINT AT 4,0; "Your s Paceship is stuck in a you.D cavern. Invaders attack on't let any Pass or you will 1

oose a life"
50 INK 3: PRINT AT 9.0; "Missio
n controls are ";AT 11.4; "7 UP";
AT 12.4; "6 DUNN";AT 13.4; "0 FIRE

60 INK 4: PRINT AT 14,0; "You c an loose a life by..."; AT 15,2;" Letting an invador Pass UR"; AT 1

6,2; "Bein9 hit by an invader" 70 INK 3: PRINT AT 18,0; "20 Pt s PER INVADER, U GOT 3 LIVES";AT 19,2; "BONUS SHIP AT 1000+5000 Pt 8",AT 21,7; INVERSE 1; "PRESS 'EN TER' KEY"; INVERSE 0

75 INPUT b# 78 CLS

80 PRINT AT 10.6; "PRESS ANOTHE ENTER"

90 INPUT b\$ 95 CIS

300 LET x=10: LET y=1 394 LET e=INT (RND#7)+7 396 FOR P=INT (RND*20)+10 TO 0 STEP -1 400 PRINT AT x,9;"4" BEEP .000 405 LET as=INKEYS 410 IF as="7" AND x>7 THEN LET

101 PRINT AT 0,3; "SCURE "; AT 0,

110 DRAW W.O: PLUT 0,20: DRAW W

120 PLOT 0,40 DRAW w.0 PLOT 0

130 DRAW W. 0 PLOT 0,145 DRAW

190 PLOT 0,r: DRAW 127,-40 200 PLOT 90,r: DRAW 37,-40: PLO

105 LET w=255: LET r=165

140 PLOT 0,125: DRAW w.0 150 PLOT 0,0: DRAW 127,40 160 PLOT 90,0: DRAW 37,40

170 PLOT r.0: DRAW -38,40 180 PLOT w.0: DRAW -128,40

218 PLOT w.r. DRAW -128,-48

T r.r: DRAW -38,-40

7OUR SPACESHIP is trapped in a cave and your life is threatened by the approaching invaders. Fire at the enemy and prevent them passing you. Failure to do so will result in the loss of a life, of which you have three. A bonus ship is gained at 1,000 points and again at 5,000 points. Sunlight enters the cave as you gain each bonus ship and diminishes the visibility in the cave.

Cave Conflict was written for the 16K Spectrum by Rhodri Jones of Anglesey, Gwynedd. 420 IF as="6" AND x<15 THEN LE

440 IF as="0" THEN PRINT AT X. 442 PRINT AT X.41"

445 IF e=x RND 18="0" THEN GO TO 5000 460 IF P<=0 THEN GU TO 6000 470 PRINT AT e,P; INK 4;"B" BE EP 0.001,20 PRINT AT e,P;" " 480 NEXT P 490 GO TO 391 5000 FOR a=0 TO 5: FOR n=0 TO 30 STEP 30' BEEP .01, n' NEXT n' NE XT A 5010 LET score=score+20 5011 PRINT AT 0,9,score 5012 IF score=1000 THEN GO TO 5 5014 IF score=5000 THEN GO TO 5 100 5020 GO TO 391 5050 PRINT AT 11,4; "BONUS!!!EXTR 5060 LET lives=lives+1 5065 FOR b=0 TO 100: NEXT b 5070 PAPER 6: CLS : BORDER 6: IN K 2 5080 PRINT £0;" NELICT 5090 GO TO 101 5100 PRINT AT 11,4, "BONUS!!!EXTR A SHIP" 5110 FOR c=0 TO 100: NEXT c 5120 LET lives=lives+1 5130 PAPER 5: CLS : BORDER 5 5149 PRINT# 0;" ONFLICT 5150 GO TO 101 6000 BEEP 1.1: BEEP 1.-20 6003 LET lives=lives-1 6005 PRINT AT 0.23:lives 6010 IF lives=0 THEN GO TO 6050 6020 GO TO 319 6050 PRINT AT 10,5; "Game Over (h a ha)" 6055 FOR 9=0 TO 200: NEXT 9 6060 GO TO 10 7000 FOR a=USR "a" TO USR "b"+2 7010 READ user: PUKE a user 7020 NEXT 7030 DATA 192,224,252,255,252,22 7040 DRTR 36,126,219,255,90,102,

7050 RETURN

x=x+1 435 LET u=135

CAVE C

AGF

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AS DOCTOR WHO you must use keys 5 and 8 to steer the tardis on to the landing pad of the planet you are approaching. Avoid the stars and planets which appear or their gravitational field will send you crashing downwards. If you land safely you will gain 30 extra points and move to the next sheet.

Tardis Lander was written for the 1K ZX-81 by Terry Bishop of Leyton, London.

1 LET S=VAL "-30" 2 LET S=S+VAL "30" 3 LET Y=INT (RND*10) 4 CLS 5 PRINT AT 15,0;"(11*9a)" 6 PRINT AT 14, RND*Y) "(1±9)"
7 FOR X=8 TO VAL "15"
8 PRINT AT RND*13, RND*Y) "(91) JAT RND#13, RND#Y; CHR# 23 10 PRINT AT X,Y. 20 LET C=PEEK (PEEK 16398+VAL "256"*PEEK 16399) 30 1F C=23 UR C=1 UR C=8 THEN COTO 200 48 IF C=VAL "128" THEN GOTO 2 50 PRINT "(1")" 55 LET Y=Y+(INKEY\$="8" AND Y<1 0)-(INKEY\$="5" AND Y>0) 60 LET S=S+VAL "2" 70 NEXT X 80 GOTO 4 260 FOR T=X TO VAL "15" 260~FOR T=X TO VAL "15" 210 PRINT AT 1.Y) "(1")")AT T.Y) 220 NEXT 1

230 PRINT AT T-1,Y;"(1")"
240 PRINT "(15:10:10:11:10:95)"

TALRAD NISER



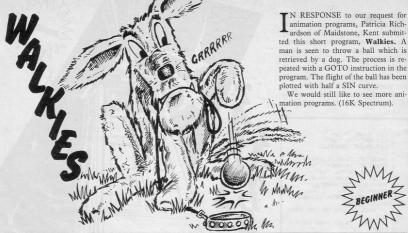
SING the cunning of a fox you have to weave in and out of the descending pack of hounds. As you negotiate one pack, you are met by another pack.

The highest score appears at the end of each game, along with the name of the scorer. Use cursor key 5 to move left and 8 to move right. Beware, you have only one life.

Foxhunt was written for the 1K ZX-81 by Adam Evans of East Dereham, Norfolk.

2 LLT M=0 3 LET 11=20 4 LET 2=10 5 CLS 6 LET T=20-A 7 LET X=IN1 (01927) 10 FOR N=1 TO A 15 PRINT AT A,2-1;"(sP'11'sP)" 20 PRINT AT N,0;"(11%1sP)";AT ";AT N,X;"" N-1,0;" 50 LET Z=Z+(INKEY\$="8" AND Z(1 1)-(INKEY#="5") 60 NEXT N 70 IF Z<>X THEN GOTO 500 95 LET A=A-1 100 GOTO 6 500 PRINT "SPLAT" 502 PAUSE 50 505 CLS S07 IF TOM THEN PRINT "NAME?"
S08 IF TOM THEN INPUT US
S09 IF TOM THEN LET M=T
S10 PRINT "SCURE=";T" HIGH SC
URE HELD BY ";US)" WITH ";M)" PO INTS 520 INPUT CS

530 GOTO 3



10 GO SUB 300

10 GU SOB 300 40 PRINT AT 20,0)"a" 50 PRINT AT 21,0;"ch" 60 PAUSE 5: PRINT AT 20,0;"b" 70 PAUSE 5: PRINT AT 20,0;"a" 99 REM &£ PLOT BALL TRAJECTORY

100 FOR n=0 TO 255 STEP 4 120 PLOT n, 40*SIN (n/255*P1) 130 PLOT INVERSE 13n, 40*SIN (n 255*PI

140 NEXT n 150 PLOT 255,0 199 REM ££ BALL CHASE ££ 200 FOR b=1 TO 30 210 PRINT AT 21,b;" d" PAUSE 4 PRINT AT 21,b;" f" PAUSE 4

220 NEXT b 230 FGA b=29 TO 1 STEP -1 240 PRINT AT 21.b;" e ": PRUSE 4: PRINT AT 21.b;" g ": PAUSE 4 250 NEXT b 260 PRINT AT 21,1,"1 " PAUSE 3

270 GO TO 50 299 REM EE GRAPHICS EE

300 FOR m=0 TO 8' FOR n=0 TO 7 READ & POKE USR CHR# (144+m)

305 DATA 96,112,96,64,96,96,112 110,96,114,100,72,112,96,96,96, 96,96,96,80,72,72,72,108 310 DATA 0,0,4,131,63,60,66,129 ,0,0,32,193,254,62,66,129

315 DRTR 0.0.4.131.63.60.68.40. 0,0,32,193,254,62,34,20 320 DATA 0,0,5,3,31,29,28,52,0, 0,160,192,248,56,56,44 336 RETURN

TEMPERAT

106 INPUT ×

107 CLS

MPERATURE CONVERT-ER was written for the 16K Spectrum by Carl Inwood, aged 13, of Shelfield, Walsall. It is a very accurate and useful program and allows you to convert Centigrade to Fahrenheit and vice versa.

5 INK 7: BURDER 1: PAPER 1: U 26 PRINT AT 0,18; FLASH 1,"CON VERTER! 25 PRINT AT 2,3; "Choose from e 1 then 30 PRINT '"a)Centigrade to Fah 40 PRINT " 50 PRINT '"b)Fahrenheit to Cen tiprade 60 PRINT " 65 PRINT "Imput a) or b)"

70 INPUT x#

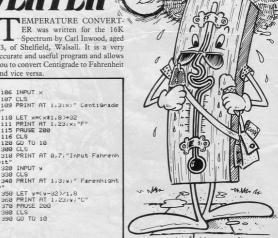
80 IF x#="a" THEN GO TO 100

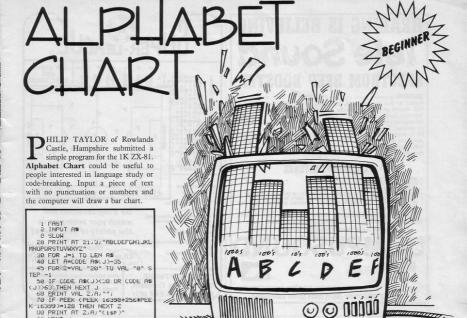
83 IF x#="b" THEN GO TO 300

85 IF x#</

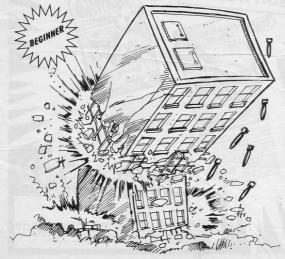
105 PRINT AT 0.7; "Input Centier

110 LET x=(x*1.8)+32 111 PRINT AT 1,23;x;"F" 115 PAUSE 200 116 CLS 120 GO TO 10 300 CLS 310 PRINT AT 0,7; "Input Fahrenh eit' 320 INPUT 9 330 CLS 340 PRINT AT 1,3;9;" Farenhi9ht 350 LET 9=(9-32)/1.8 360 PRINT RT 1,23;9;"C" 370 PAUSE 200 380 CLS 390 GO TO 10





TOWER OF DESTRU



TOU ARE the pilot of an aircraft and have to fly across a randomlygenerated city, bombing the tower blocks as you pass over. You can drop only two bombs each time you pass over the city and must wait for the return journey to fire again.

Use key "Z" to fire your bombs. Tower Destruction was written for

the 1K ZX-81 by Stephen Hill of Seabridge, Newcastle.

```
2 INPUT A
  4 LET U=VAL "0"
5 FOR W=3 TO 16
 10 FOR N=INT (RND*5)+10-8 TO 1
 20 PRINT AT N.W. "(1=)"
 30 NEXT N
 40 NEXT W
 90 FOR 8=0 TO 10
100 FOR N=0 TO 17
105 IF PEEK (PEEK 16398+256*PEE
16399)=148 THEN STUP
110 PRINT AT B,N," >"
112 IF N=0 THEN LET U=0
115 IF INKEY#="Z" THEN GUSUB 19
116 IF U=3 THEN STOP
117 PRINT AT B,18;"
120 NEXT N
130 NEXT B
135 PRINT
                   YOU HAVE LANDED"
190 LET U=U+1
200 FOR P=B+1 TO 10
210 PRINT AT P.N+1,".
215 PRINT AT P,N+1,"
```

221 NEXT P 250 RETURN

90 NEXT J

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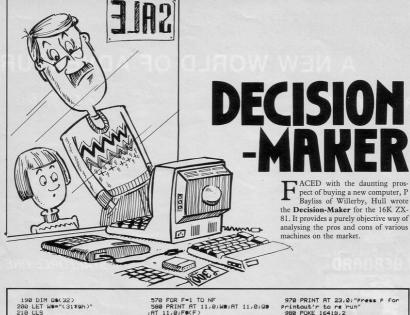
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"season ticket."





```
200 LET W#="(31*9h)"
 210 CLS
 220 PRINT AT 6,0, W#
 230 PRINT .... HOW MANY OPTION
S ARE THERE TO
                            DECIDE B
ETHEEN ?!
 240 PRINT ,,,, WS
 250 INPUT NO
 260 IF NOKE OR NO 20 THEN GOTO
218
 270 DIM R(NO)
 288 CLS
 290 DIM 09(NO,30)
 300 FOR F=1 TO NO
 310 PRINT AT 0,0, W#; AT 0,0,0$; A
T 0,5, "NAME OF OPTION NO. "JF)"
 320 INPUT DOCES
 330 IF PEEK 1644244 THEN GOSUB
1269
 340 PRINT AT F+2,0)F)":")0#(F)
 350 NEXT F
 360 GOSUB 1230
 370 CLS
380 PRINT AT 8,0,000
390 PRINT , "HOW MANY FACTORS A
RE THERE WHEN CONSIDERING THESE
 ",NO," OPTIONS ?
400 PRINT ,, We
410 INPUT NF
 420 IF NF>300 THEN GOTO 410
 430 CLS
 449 DIM FO(NF, 38)
 450 FOR F=1 TO NF
460 PRINT AT 0,0; Was AT 0,0; Qa)A
  0,5; "NAME OF FACTOR NO. "JF)" ?
 470 INPUT F9(F)
480 PRINT RT F+2,0;F;":";F9(F)
 490 IF PEEK 16442(4 THEN GOSUB
1269
 500 NEXT F
 510 DIM I(NF)
 520 GOSUB 1230
 530 CLS
      PRINT AT 4.0:WE
 550 PRINT ..., "IN DECIDING BETW
```

```
590 PRINT , TAB 5; "(ON A SCALE
1 TO 20)"
 600 PRINT ,,,,We
610 INPUT I(F)
620 IF I(F)(1 OR I(F))20 THEN G
OTO 539
 630 NEXT F
 640 DIM R(ND, NF)
 650 CLS
660 FOR F=1 TO NO
 670 LET 8(F)=0
 680 CLS
 690 FUR G=1 TU NF
 700 CLS
 710 PRINT AT 4,0, W#
 720 PRINT , , , , "TAKING THE "; 0%(
 730 PRINT "HOW WOULD YOU RATE I
730 PRINT "HOW WOULD YOU RATE
TS", TAB 0, FB(G)
740 PRINT , "(1 TO 20 AGAIN)"
750 PRINT , ", W$
760 INPUT R(F,G)
770 IF R(F,G)(1 UR R(F,G))20 TH
EN GOTO 700
 780 LET R(F,G)=R(F,G)*I(G)
790 LET R(F)=R(F)+R(F,G)
 800 NEXT G
 810 NEXT F
 828 CLS
 830 PRINT AT 8,0, WE AT 10,1,"LE
T ME DIGEST THE FIGURES A BIT"; A
  12,0,W
 840 FOR F=0 TO 4
 850 GOSUB 1230
 860 NEXT F
 870 CLS
 880 GOSUB 1310
890 PRINT "OK, THIS IS HOW THEY
SCORE
 900 PRINT WW, AT 3,0;
 910 FOR F=1 TO NO
920 PRINT TAB 0.08(F)X TO 29-LE
N STRE (S(F))) S(F) "
 930 IF PEEK 16442(6 THEN GUSUB
1230
 948 IF NOKE THEN PRINT
```

950 NEXT F 960 POKE 16418,0

```
Printout'r to re 'run"
980 POKE 16418,2
 990 LET RE-INKEYS
1000 IF A = "P" THEN GOTO 1030
1010 IF A = "R" THEN RUN
1020 GOTU 990
1030 FAST
1040 PRINT AT 0,0)
1050 LPRINT TAB 3; "decision make
   iii'results"
1060 LPRINT THE 0;
1070 FOR F=1 TO NO
1080 LET L=LEN STR# S(F)
1090 LPRINT OW(F) TO 29-L>,S(F)
1"92/94"
1100 NEXT F
1120 LPRINT TAB 6;"(factors cons
idered)
1130 LPRINT TAB 0,,
1140 FOR F=1 TO NF
1150 LET L=LEN STR# I(F)
1160 LPRINT F#(F)( TO 32-L); I(F)
1170 NEXT F
1180 FOR F=0 TO 3
1190 LPRINT
1200 NEXT P
1210 SLOW
1220 GOTO 960
1230 FOR S=0 TO 15
1240 NEXT 9
1250 RETURN
1260 FOR F=0 TO 3
1270 SCROLL
1280 NEXT F
1290 RETURN
1300 REM calculate Percentages
1318 LET MRX=(NF*26)*2
1320 DIM S(NO)
1330 FOR F=1 TO NO
1340 LET S(F)=(R(F)/MAX)*10
1350 LET S(F)=(INT (((S(F)*100))
+.5)/100)
1360 NEXT F
1370 RETURN
9997 CLEAR
9998 SAVE "DECISION MAKER III"
9999 RUN 190
```

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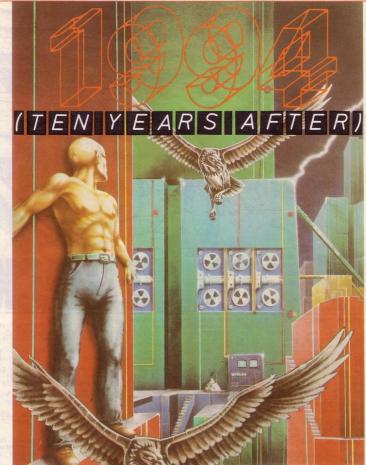
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THE AIM of Smoke Stack is to block the car the computer controls with the smoke which your car emits. You must also avoid the smoke trail of the other car.

Written for the 16K Spectrum by David Gill of Walsall.

3 BURDER 0: PAPER 0: 1NK 7: U

4 PLUT 20,20: DRAW 1NK 5,10, 36: DRAW INK 5,100,0: DRAW INK 5,20,-15: DRAW INK 5,45,0: DRA INK 5:0:-15: DRAW 1NK 5:-30: 5 DRAW

INK 5:-5:5: DRAW 5;-10;0: DRAW INK 5;-5;-5: DRA W INK 5;-80;0 6 DRAW INK 5:-5:5: DRAW INK

5-110/9 DRAW INK 53-53.5: DRAW INK 53-10/9 DRAW INK 53-55.5: DRAW INK 53-55.5: DRAW INK 53-25/8: PLOIT 35/35: DRAW INK 53-10/9 DRAW INK 530.0: DRAW INK 530.0: DRAW INK 530.0: 30,0

7 PLOT 100,35: DRAW INK 518, 10: DRAW INK 5:20.0: DRAW INK 5:10:-10: DRAW INK 5:-30.0 8 PLOT 110,50: DRAW INK 5:-1

0.20

9 CIRCLE INK 5;95,15,7 10 CIRCLE INK 5;155,15,7 20 PRINT : PRINT "DO YOU WANT THE INSTRUCTIONS ? (9,n)" 21 BEEP .1,10: BEEP .1,10: BE

.1,10 BEE P .1.10: BEEP .7.5: BEEP .7.0: B EEP .1.10: BEEP .1.10: BEEP .1.1 0: BEEP .7.5: BEEP .7.0 23 BEEP .5,20: BEEP .5,20: BEE

.5,20 BEEP .9,10 BEEP .9,5 EP .5,20 BEEP .5,20 BEEP .5, BEEP 20: BEEP .9,10: BEEP .9,5

31 IF as="9" THEN GO TO 9000 32 IF as="n" THEN GO TO 40 33 IF as<>"9" OR as<>"n" THEN GO TO 30

50 FOR 9=0 TO 7: READ a: POKE USR "a"+9, a: NEXT 9 60 DATA BIN 18018010, BIN 00100

100, BIN 10010010, BIN 00100100, BI N 10010010, BIN 00100100, BIN 1001 0010.BIN 00100100

76 FOR s=0 TO 7: READ h: PUKE UGR "h"+s,h: NEXT s

80 DATA 0,BIN 00111000,BIN 010 10100, BIN 11010110, 255, BIN 11101 110.BIN 01000100.0 81 GO TO 98

85 CLS : PRINT : PRINT "DO YOU WANT THE INSTRUCTIONS ? (9,n) 86 INPUT b\$

87 IF b\$="9" THEN GO TO 9000 88 IF ba="n" THEN GO TO 40 89 IF as<>"a" DR as<>"n" THEN

GO TO 30 90 CLS

100 PRINT AT 10,10; INK 6; "(11* 15P)" 110 PRINT AT 11,10; INK 6;"(11*

120 PRINT AT 9,10; INK 6; "(11*1 130 PRINT AT 8,10; INK 6;"(1*15

191 FOR a=0 TO 31 PRINT AT 0.a INK 5; "(1SP)": NEXT a

192 FOR 6=0 TO 19: PRINT AT 6.0 J . INK 5; "(15P)" : NEXT b 193 FOR C=0 TO 31: PRINT AT 19,

194 FUR d=0 TU 19: PRIM PRINT AT d.3 INK 5)"(18P)": NEXT d

195 LET men=1

196 LET score=0

197 LET J=2: LET 1=2 198 LET x=29: LET z=17

199 FOR 1=0 TO 1 200 IF INKEY6="4" THEN LET J=J

-1: PRINT AT J+1,1; INK 4; "a": L ET score=score+5: IF ATTR (J,1)= 6 THEN LET 3=3+1 201 1F JK=0 THEN LET 3=J+1 BE EP .7,-20 BEEP .7,-20 BEEP .9,

210 IF INKEY#="a" THEN LET J=J +1: PRINT AT j-1,1; INK 4; "a": L ET score=score+5: 1F ATTR (J,1)= 6 THEN LET J=J-1 211 IF J>=19 THEN LET J=J-1: B

EEP .7,-20: BEEP .7,-20: BEEP .9

-30 220 IF INKEY =" i" THEN LET 1=1 -1: PRINT AT J.1+1; INK 4; "a": L ET score=score+5: IF ATTR (J.1)=

6 THEN LET 1=1+1 221 IF 1<=0 THEN LET 1=1+1: BE EP .7,-20: BEEP .7,-20: BEEP .9, -30

230 IF INKEYS="0" THEN LET 1=1 +1: PRINT AT J. 1-1; INK 4; "a" ET score=score+5: IF ATTR (J,i)= 6 THEN LET 1=1-1 231 IF 1>=31 THEN LET 1=1-1 B

.7,-20 BEEP .7,-20 BEEP .9

233 IF ATTR (J,1)=4 THEN LET m en=men=1: BEEP .7,-20: BEEP .7,-20: BEEP .3,-30 234 NEXT 1

235 IF J>z THEN LET z=z+1: PRI NT AT z=1,x; INK 4;"a": IF ATTR (z,x)=6 OR ATTR (z,x)=4 THEN LE T z=z-1 236 IF JKZ THEN LET Z=Z-1: PRI

NT AT z+1,x; INK 4,"a": IF ATTR (z,x)=6 OR ATTR (z,x)=4 THEN LE T z=z+1

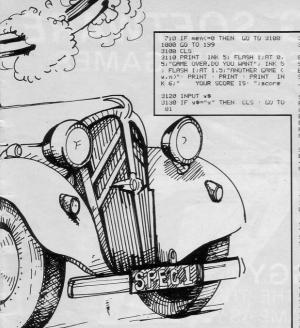
237 IF i(x THEN LET x=x-1: PRI NT AT z,x+1; 1NK 4;"a": IF ATTR (z,x)=6 OR ATTR (z,x)=4 THEN LE x=x+1

238 IF 1>x THEN LET x=x+1: PRI NT AT z,x-1; INK 4; "x": 1F ATTR (z,x)=6 OR ATTR (z,x)=4 THEN LE

T x = x = 1 240 IF ATTR (z,x)=3 THEN LET m en=men-1: IF ATTR (z,x)=4 THEN LET x = x 1: PRINT AT z,x; OVER 1; INK 2: "a" BEEP .7,-20: BEEP .7,-20: BEEP .7,-20: BEEP .9,-48

575 PRINT AT 20,0; "SCURE= "; sco 589 PRINT AT J, 1; INK 3;

590 PRINT AT z,x; INK 2; "b 600 PRINT AT 21,0; "LIVES= ")men



3140 IF 95="n" THEN STOP 3150 IF 9#<>"9" OR 9#<>"n" THEN GO TO 3002 8999 STOP 9000 CLS . PRINT " BLOCK' 9001 PRINT OVER 1; AT 0,8; "__

9002 PRINT : PRINT "THE OBJECT O F THIS GAME IS TO OUT RUN THE OPPOINENTS CAR CEDINTROLLED BY THE COMPUTER). E TO AVOID BUMPING YOU ALSO HAV INTO THE SMO KE YOU LAY AND THE SMOKE THE CO MPUTER LAYS.

9003 PRINT : PRINT "YOU ALSO HAV E TO AVIOD BUMPING INTO THE OUT -SIDE AND INSIDE WALLS." PRI -SIDE AND INSIDE WALLS.": PRI NT : PRINT "YOU LOSE A LIFE WHEN YOU -" PRINT "HIT YOUR SMOKE."

PRINT "HIT THE OTHER CAR OR IT'S SMOKE.": PRINT "IF YOU CRASH INTO THE OUT SIDE OR INSIDE WAL

9004 PRINT : PRINT "PRESS ANY KE Y FUR THE KEYS": PAUSE @ 9005 CLS

9007 PRINT : PRINT "THE KEYS ARE :-": PRINT : PRINT 1NK 3; FLASH 1,"PLAYER 1 THE MAGENTA CAR:-":
PRINT INK 4) FLASH 1;"UP DOWN
LEFT RIGHT": PRINT FLASH 1; INK 5,"9 1 1 0" 9008 PRINT : PRINT : PRINT "PRES 5";97 86; INK 2; FLASH 1;"6"; F LASH 9; 1NK 7;" TO RUN THE GAME"

9009 INPUT INKEY\$ 9010 IF INKEY\$ <> "r" THEN GO TO 9009 9020 IF INKEYS=""" THEN GO TO 4

1 LET Z=SGN PI 2 LET S=PI-PI 3 LET X=CUDE "(9t)" 5 PRINT AT CODE "(9s)", CODE "

")"score ")S 10 LET R=INT (RND*X)+2 20 LET B=INT (RND*X)+2 30 LET C=INT (RND*X)+2

40 PRINT R 50 PRINT B

60 PRINT C

70 IF A=B AND B=C THEN PRINT "

73 IF A=B AND B=C THEN LET S=S +VAL "100" 75 IF A=B AND B=C THEN GOTO CO DE "ABS "

80 IF A=B OR A=C OR B=C THEN G

90 GOTO CODE "ABS " 200 PRINT "BONUS "; CODE "M" 205 LET S=S+CODE "M"
210 IF INKEY#="" THEN GOTO CODE

220 GOTO CODE "(95)"

JUN

SIMPLE program submitted by S G Wylie of Ramsgate, Kent for the 1K ZX-81. Three random numbers, chosen by the computer, appear to the left of the screen. Fifty bonus points are awarded for two corresponding numbers, between 1 and 6, and a jackpot of 100 bonus points for three identical numbers.

You have to press NEWLINE key for each set of numbers and your score is totalled at the end of each turn. A POKE command is inserted in the program which must be executed before typing the program into the computer prior to cassette storage-(POKE 16389,76).



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FROGRUN

Popular arcade game. All machine code with brilliant colour graphics and sound effect. Features include snakes, crocodiles, lady frogs, turtles, cars, lorries and logs.

16K/48K **f5 95**

TINY TOT'S SEVEN

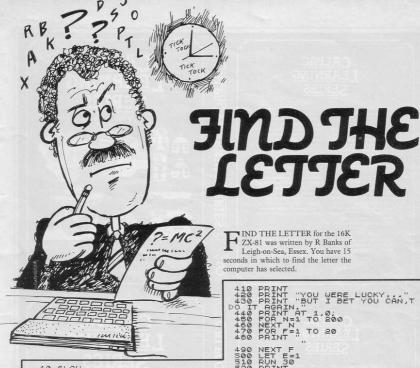
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■ IND THE LETTER for the 16K ZX-81 was written by R Banks of Leigh-on-Sea, Essex. You have 15 seconds in which to find the letter the computer has selected.

```
SOCIETATION TO THE THE THE THREE THE THREE THREE
                                                                                                                                      SLOW
                                                        2000
#E550000
                         THE ASSET THE ASSET TO ASSET T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $00004QC
                         THEN GOTO 520
                                                                                                                                                                                                                                                                                                                                                     "WELL DONE."
                                                                                                                                                                                                                                                                                                                                                "THE LETTER WAS: """;A 9998
                               400
```

```
PRINT YOU WER PRINT "BUT I BI AGAIN." PRINT AT 1,0; FOR N=1 TO 200 PRINT "
                       410
420
430
DO IT
                                                                                                                                                      "YOU WERE LUCKY ... "
"BUT I BET YOU CAN, T
                                  450
450
460
480
                                  NEXT F
LET E=1
RUN 30
PRINT
PRINT "
                                                                                                                                                        "YOU RAN OUT OF TIME.
                       55; 55556604
$55; 55556604
                                                                       PRINT
                                                                                                                                                      "THE LETTER WAS: """; A
                                                                              PRINT "TRY AGAIN."
GOTO 440
PRINT
PRINT
PRINT "DO YOU WANT
                                                                                                                                              "DO YOU WANT INSTRUCT
10No 620 IF 600 INKE. 630 IF CODE INKE. 650 650 650 PRINT AT 2,0;" -INS. 650 PRINT "ALL YOU HAVE TO DO I 650 PRINT "ALL YOU HAVE TO DO I 650 PRINT "ALL YOU HAVE TO DO I 650 PRINT "BUT BE CAREFUL, THERE 690 PRINT "BUT BE CAREFUL, THERE 15 P 15 SECOND TIME LIMIT." 700 PRINT "GOOD LUCK..." 720 PRINT AT 21,5; "PRESS N/L TO PRINT AT 21,5;
                                710 PRINT "GOOD LUCK..."
720 PRINT AT 21,5 ; "PRESS N/L T
720 PRINT AT 21,5 ; "PRESS N/L T
720 IF CODE INKEY$=118 THEN GOT
730 IF CODE INKEY$=118 THEN GOT
740 GOTO 730
750 PRINT AT 0,31;
750 PRINT BT 0,21
770 PRINT "
                                                                              NEXT F
RETURN
SAVE "
RUN
                                                                                                                                                      G.T.LE"
```

VOL. 1 FROM FROM YEARS





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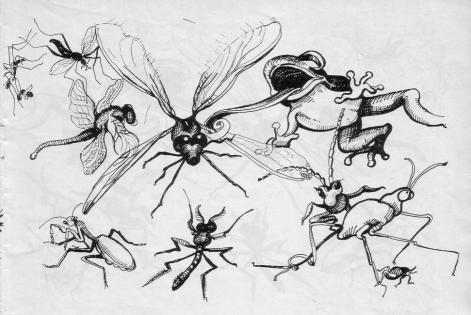
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OU HAVE one minute to catch as many types of insects as possible with the sticky tongue of your frog. The controls are 5 — skip left; 8 — skip right; 6 — jump left; 7 — jump right; 0 releases the tongue. Press R to return to the lily pad for a new game.

return to the lily pad for a new game.

Bugfever was written by Simon Cox of Dunstable, Beds.

1 DATH 14.17.17.35.37.42.116. 58.65.48.72.7.5.9.3.4.106.181.23 4.100.4.22.4.32.64.170.181.23 4.100.4.2.24.32.64.170.05.64.32.7 4.0.0.192.62.61.255.62.32.0.41.7 1.1.0.1.127.0.0.3.14.255.255.255.

,126,255,127,63,255 3 DATA 14,27,62,126,255,254,2 52,255,248,8,128,255,128,0,248,0 ,0,8,254,128,0,128,254,0,0,192,1 12,255,255,255,255,112,192,0,15,0,1, 4,1,0,15

4 RESTURE : FOR 9=0 TO 167 ST EP 8: FOR r=0 TO 7: READ a: POKE USR "(9a)"+9+r,a: NEXT r: NEXT

10 CATA SIN 1010010.EIN 010101 01.BIN 0101010.BIN 00101011.BIN 00101011.BIN 1001011.BIN 10001 111.BIN 0111111.BIN 01100101.BI 101101010.BIN 10101010.BIN 1101 01001010.BIN 10101010.BIN 1101 0100.BIN 11010100.BIN 11101001.B

15 DATA BIN 1010010, BIN 010101 01, BIN 01010101, BIN 00101011, BIN 00101011, BIN 1001011, BIN 10001 111, BIN 01111111, BIN 01100101, BI N 01101010, BIN 10101010, BIN 1101

BUG FEVER

0100,BIN 11010100,BIN 11101001,B

IN 1110001,255 20 DATA 14,17,17,35,37,42,116, 63,96,152,8,8,16,32,132,248 900 BORDER 5: PAPER 8: BRIGHT 1

CLS : FUR n=0 TO 10: PRINT AT n.0; PAPER 5,.: NEXT n: FUR n=11 TO 21: PRINT AT n.0; PAPER 1,.: NEXT n
901 INK 7: FUR n=0 TO 80 STEP 16: FUR q=0+RND#4 TO 255 STEP 16:

PLOT 9, r., DRAW 2, 2. DRAW 2,-1: NEXT 9: NEXT r 911 LET time=60: LET score=0 912 INK 1: PRPER 4: PRINT AT 17

911 LET time=60: LET score=0 912 INK 1: PAPER 4: PRINT AT 1: ,3,"(isp:i93:19%sp:i93)" 913 PRINT AT 18,3;"

914 PRINT AT 19.3; "(15P:93:21%5 P:93)" 915 INK 0: PAPER 4: PLOT 35.26:

915 INK 0: PAPER 4: PLOT 35,26: DRAW 170,0 916 FOR n=45 TO 190 STEP 8: PLO T n,26: DRAW 8,8: DRAW -8,-8: DR

AW 8,-8: NEXT n 917 FOR n=0 TO 255: PLOT INK 4 1n,8: DRAW INK 4;0,1NT (RND*8)

NEXT n 918 RESTURE 10: FOR n=0 TO 15: READ a: POKE USR "(9a)"+n,a: NEX

919 PRINT RT 19,1) INK 3; PAPER 1; "(9a:9b)"; RT 16,3) INK 6; PAP ER 1; "(9a:9b)"; RT 16,2) INK 7; PAPER 1; "(9a:9b)"; RT 19,28) INK

6) PAPER 1;"(9a:9b)" 920 RESTORE 20: FOR n=0 TU 15: READ a: POKE USR "(9a)"+n,a: NEX

930 FOR 4=1 TO 0 STEP -.1: PLOT INK 6:224,175: DRAW INK 6:31,

-944,4: NEXT 9
940 OVER 0: FOR r=40 TO 200: FO
R 9=1 TO 4: PLOT INK 3;r+4,16:
DRAW INK 3;0,12: NEXT 9: LET r=
r+INT (10+RNO*20): NEXT r

1010 PAPER 8: INK 9: REM fros 1015 PRINT AT 21,0; PAPER 4,, 1016 PRINT AT 21,11; INK 7; "BUGF EVER"

1020 LET x=16: LET y=13 1021 PRINT AT x,y; INK 7;"(99)" 1025 LET z=10

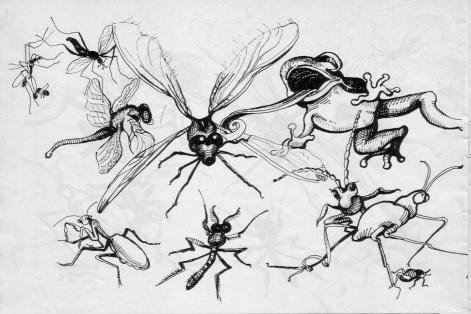
1025 LET z=10 1026 GU TU 5360 5020 FOR m=x-3 TU x-z+(3 AND 9>= 25 AND z>3) STEP -1 INK 0+(7 AN

25 AND 2/3) STEP -1: INK 0+(7 AN D n>10): BRIGHT 1: PRINT AT nyy, "9j", AT n+1, y, "9k", AT n+2, y, "1 "IRT n+3, y," ": GO SUB 6050 5030 NEXT n

5035 PRINT AT n+1,4;" ";AT n+2,4;" ";AT n+3,4;" "
5040 FOR P=4 TO 4+4-(3 AND 4>=25

5050 PRINT AT n,p;" (99:9h:91)"
5051 IF INKEYS="0" THEN BEEP .0
1,0: PRINT AT n,p+3; INK 0;"(9n)

5052 IF (SCREEN\$ (n,p+4)()" ") A
ND INKEY\$="0" THEN PRINT AT n,p



+3; INK 2;"(9r)": FOR r=5 TO 1 S TEP -1: BEEP .01,-r: NEXT r: PR1 NT AT a,b-1;" ": LET score=sc ore+sc1: GO SUB 5310 5053 GO SUB 6050 5060 NEXT P

5061 LET time=time-(4 AND z<>3)-(4/10 AND z=3)

5065 PRINT AT n.P-1;" 5070 FOR n=x-z+(3 AND y>=25 AND

5070 FOR n=x-z+43 HND 9>=25 HND z>3) TO x: INK 0+(7 RND n>10) + 2 RINT RT n=3.9+41"(9m)";RT n=2.9+ 4;"(9m)";RT n=1.9+41,"(90)";RT n= 4,9+47" ": GO SUB 6650 5080 NEXT n

5085 PRINT AT n-4,9+4;" ";AT n-3 9+4;" ";AT n-2,9+4;" "

5090 LET 9=9+4: PRINT RT x,9; IN K 7: "(99)"

K 7;"(94)"
5095 BEEP .01,-20 BEEP .01,-10
5096 IF y>=29 THEN LET time=tim
e-3 PRINT RT x,y; INK 1;" ": IN
K 7: FOR n=1 TO 20 BEEP .063.n: PLOT 236,32: GO SUB 6050: DRAW INT (-10+RND*20), INT (RND*15) EXT n: GO SUB 6050: FOR 4=16 TO

18: PRINT AT 4,28; PAPER 1;"
": GO SUB 9120: GO SUB 6050: NEX T 9: LET x=16: LET y=13 5100 RETURN

5120 FOR n=x-3 TO x-z STEP NK 0+(7 AND n>10): PRINT AT n,4) "(91)";AT n+1,4;"(9k)";AT n+2,4;
"(91)";AT n+3,4;" ": GO SUB 6050

NEXT 5135 PRINT AT n+1,9;" ";AT n+2,9 ",AT n+3,4;

5140 FOR P=% TO 9-4 STEP -1 5150 PRINT RT n,P;"(9u 9t 9s) ": GO SUB 6050: POKE USR "(9u)"+4,

5156 IF INKEYS="0" THEN BEEP .0 1,0: POKE USR "(9u)"+4,255 5157 IF (SCREEN# (n,P-1)(>" ") A ND INKEY#="0" THEN POKE USR "(9 u)"+4,255: FOR r=5 TO 1 STEP -1: BEEP .01,-r: NEXT r: PRINT AT a

": LET score=score+sc 1 GO SUB 5310 5160 NEXT P

5161 LET time=time-(4 RND z<>3)-(4/10 AND z=3)

5165 PRINT AT n,P+1;" "
5170 FOR n=x-z TO x' INK 0+(7 AN D n>10) PRINT AT n-3,9-4;"(9m)" (90)"(AT n-2,9-4;"(9n)"(AT n-1,9-4;"(5180 NEXT n

5185 PRINT AT n-4, y-4; " "; AT n-3 ,9-4;" ";AT n-2,9-4;"

5190 LET y=y-4: PRINT AT x/y;"(9 P)" 5195 BEEP .01,-20: BEEP .01,-10

5196 IF <=3 THEN LET time=time -3: PRINT AT x, y, INK 1;" ": INK 7: FOR n=1 TU 20: BEEP .003, n: PLOT 11,32: GU SUB 6050: DRAW IN T (-10+RND*20), INT (RND*10): NEX T n: GO SUB 6050: FOR 9=16 TO 18 : PRINT AT 4,0; PAPER 1;" ": G 0 SUB 9110 GO SUB 6050 NEXT 4 LET x=16: LET y=13

5200 RETURN 5310 LET #=INT (1+RND*7): LET 61 =INT (1+RND*3) 5320 IF b1=1 THEN LET a\$="(9a:9

b) ": LET d=-1: LET d1=0: LET b= 29: LET sc1=150 5330 IF b1=2 THEN LET as="(9d:9

e) ": LET d=-1: LET d1=0: LET b= 29: LET sc1=200 5340 IF b1=3 THEN LET s#=" (9c: LET d=1: LET d1=29: LET b= 96) 0: LET sc1=50

5350 RETURN 5360 GO SUB 5310 6000 GO SUB 6050

6001 PRINT AT 21,0; INK 7; "TIME: "; INT time AND time>=0;" "; AT 21 ,22; INK 7; "SCURE: "; score

7,22) TAK 7, SCURE: 33COPE 6002 IF time<=0 THEN LET time=0 1 PRINT AT 10,9; INK 7; PAPER 4; 1 GAME-OVER 1: GO TO 9000

6005 IF INKEY\$="8" THEN LET z=3 · BEEP .01.8 GO SUB 5016 · 6010 IF INKEYS="7" THEN LET z=x -1-1: BEEP .01.7: GO SUB 5016: 6020 IF INKEYS="5" AND 1) THEN LET z=3: BEEP .01.5: GO SUB 512

6030 IF INKEY#="6" AND 9>1 THEN LET z=x-a-1: BEEP .01.6: GD SUB 5120:

6035 LET time=time-1/10 6040 GO TO 6000 6050 PRINT AT a,b; INK 0;a\$ 6060 LET b=b+d: IF b=d1 THEN PR INT AT a,b-1," ": GO SUB 5310 6065 BEEP .001, b 6070 RETURN

9000 IF INKEY\$<>"r" THEN GO TO 6999

9015 PRINT AT 1,12; "SCURING"; AT 2,12,"---9020 PRINT AT 4,3,"(9d-9e) DRAG

ONFLIES---- 200" 9040 PRINT AT 6,3; "(94.96) BUTT ERFLIES---- 150" 9070 PRINT AT 8,3; "(9c 9f) FLIE

50 9090 FOR n=1 TO 50: NEXT n

9090 IF INKEY\$<>"r" THEN GO TO 9999 9100 FOR n=1 TO 10: PRINT AT n.0

PAPER SJ INK 75" " NEXT n: PRI

NT AT 21,28; PAPER 4; INK 4;"
": PRINT AT x,9;" ": LET score= 0: LET x=10: LET x=16: LET y=13: LET time=61: PRINT AT x,y; INK 7;"(94)": GO TO 5360

9110 INK 7: FOR n=0 TO 16 STEP 1 6: PLOT n,32: DRAW 2,1: DRAW 2,-1: NEXT n: PRINT AT 16,13,"(99)" RETURN

9120 INK 7: FOR n=0 TO 16 STEP 1 6: PLOT n+230,32: DRAW 2;1: DRAW 2,-1: NEXT n: PRINT AT 16,13;"(94)" | RETURN



JAWS

Berkshire wrote Jaws for her fiveyear-old daughter. It is for the 16K ZX81 and is a simple mathematics program with a shark chasing a fish at the bottom of the screen. If you answer correctly the fish will escape.

```
10 PRINT AT 3,12, "JAWS"
  15 PRINT AT 4,12; "===="
20 PRINT AT 7,0; "TRY TO HELP T
HE FISH ESCAPE FROM"
25 PRINT "THE SHARK BY GETTING
 THE ANSWERS"
  30 PRINT "RIGHT."
  35 PRINT AT 12,00 "AT THE END P
RESS Y AND NEWLINE"
40 PRINT "TO PLAY THE GAME AGA
  45 PRINT AT 16,0, "PRESS ANY KE
Y TO START.
  50 IF INKEY "" THEN GOTO 50
 100 CLS
 105 LET W=0
 110 LET F=8
 120 LET X=0
 130 PRINT AT 20,0; "(9a:9d:9a:9d
94 96 94 96 94 96 94 96 94 96 94
9d 9a 9d 9a 9d 9a 9d 9a 9d 9a 9
d 9a 9d 9a 9d 9a 9d)"
 140 PRINT AT 16,30; "Y"
 150 PRINT AT 17,30; "Y"
160 PRINT AT 18,20; "Y Y"
 170 PRINT AT 19,28; "Y Y"
 180 GOSUB 600
 190 GOSUB 700
 200 RAND
 210 LET A=INT (RND*11)
220 LET B=INT (RND*11)
 230 IF X=0 THEN GUTU 800
235 GOSUB 900
240 PRINT AT 4,5,"WHAT IS ",A;"
+",B
 250 INPUT ANSWER
 260 PAUSE 40
 270 PRINT TAB 13)A)"+")B)"=")AN
 280 IF ANSWER-A+B THEN GOTO 400
 300 PRINT TAB 13; "WRONG. TRY AGA
TH. "
 310 FOR Z=15 TO 18
 320 PRINT AT Z.W.
 330 NEXT Z
 340 LET W=W+6
 350 COSUB 600
 360 IF F=W+2 THEN GOTO 480
 370 GOTO 235
 400 PRINT TAB 13, "RIGHT. WELL DO
NE.
 410 PRINT BT 16,F
 420 PRINT AT 17,F;"
 430 LET F=F+6
 440 GOSUB 700
 450 IF F=26 THEN GOTO 540
 460 GOTO 210
480 PRINT AT 10,0, "SORRY, YOUR F
ISH HAS BEEN EATEN. "
 490 GOTO 550
540 PRINT AT 10,0; "CLEVER YOU.T
HE FISH HAS ESCAPED."
550 PRINT AT 12,0,"DO YOU WANT
TO PLAY AGAIN?Y OR N"
 560 INPUT RE
 570 IF R#="Y" THEN GOTO 100
 580 CLS
585 PRINT AT 10,12; "GOODBYE."
 590 STOP
600 PRINT RT 15,W;"(9a: 4*9a)"
 610 PRINT RT 16, W; "(4*9a'10:9a)
 620 PRINT AT 17, W; "(6*94)"
 630 PRINT AT 18, W; "(9a: 4*9a)"
 640 RETURN
 700 PRINT AT 16,F;"(9w:1sp:1*)"
710 PRINT AT 17,F;"9e:2*1sp)"
 720 RETURN
800 PRINT BT 3,0) "HELLO.
 810 LET X=1
 820 GOTO 240
 900 FOR 2=3 TO 6
910 PRINT AT 2,0,"
 920 NEXT 2
 930 RETURN
```





MAESLIDE

2 LET FED=0 3 LET I=0 4 LET SET=1000 5 LET IN1T=9100 6 GOSUB INIT 14 LET 88= 17 CLS 20 LET NU=8 22 LET ER=0 24 LET WE=0 26 LET 80=0 27 LET UP=0 28 LET DO=0 30 LET Is="" 32 FAST 35 GOSUB SET 49 (19 45 PRINT IS 50 LET FOUND=0 52 LET P=0 60 GOTO 9600 70 SLOW 80 GOTO 100 90 IF AM="LOOK" AND NOT FOUND THEN PRINT "I CAN""T SEE ANYTHIN G SPECIAL 100 PRINT "WHAT SHALL I DO ?" 102 INPUT JS 103 IF Ju="" THEN GOTO 100

104 CLS 106 LET A-RND 107 IF SET=1240 AND A>.95 THEN PRINT "THE DOG AWOKE AND KILLED

108 IF SET=1240 AND A>.95 THEN GOTO 9000

109 GOSUB 500 110 PRINT A#," ",B# 111 IF B#="" THEN GOTU 115 112 IF B#(1)=" " THEN LET E THEN LET BS=BS (2 TO)

113 IF A#="TAKE" OR A#="GET" OR A#="PUT" OR A#="DROP" THEN LET G株=日本+" 114 IF B#=" " THEN GOTO 112 115 IF AS="N" AND NOX >0 THEN LE

SET=NO 120 IF AS="S" AND SUC>0 THEN LE SET=SO 130 IF AS="W" AND WEK >0 THEN LE

SET=WE 140 IF As="E" AND EAK >0 THEN LE SETHER

150 IF A#="D" AND DOK >0 THEN LE SET=DO

155 IF As="N" OR As="S" OR As=" I" OR As="E" OR As="D" THEN GOTO 20

156 IF AS="U" AND SET<>1210 AND SET<>1240 AND SET<>1450 THEN GO TO 158

157 IF AM="U" THEN GUTO 6000 158 FAST

160 IF A\$="R" THEN GOTO 40 170 IF AS="HELP" THEN PRINT "NU

CHANCE MATE" 175 IF As="HELP" THEN GOTO 100 180 IF As="TAKE" OR AS="GET" T EN GOTO 2000

185 IF AG="SAVE" THEN GOTO 9800 190 IF AG="PUT" OR AS="DROP" TH EN GOTO 4500

200 IF AS="OPEN" THEN GOTO 2500 200 IF ##="PPEN" THEN GOTO 2500 205 IF ##="FEED" THEN GOTO 3500 210 IF ##="LOOK">= GOTO 60 215 IF ##="SWIM" THEN GOTO 4000 225 IF ##="LIGHT" THEN GOTO 750

a 230 IF A*="READ" THEN GOTO 6500 240 IF A*="UNLOCK" THEN GOTO 30

øø. 250 IF A*="I" THEN GOSUB 5500 255 IF A*="I" THEN GOTU 100 260 IF A*="INSERT" THEN GOTU 70

aa 275 IF AM="QUIT" THEN GOTO 9000 280 IF AM="SAVE" THEN GOSUB 990

0 490 IF LEN AW=1 THEN PRINT "I C

491 IF LEN 85=1 THEN GOTO 100 498 PRINT "I CAN""T ";As;" ";Bs 499 GOTO 100

500 IF J#(1)=" " AND LEN J#>1 T HEN LET J#=J#(2 TU) 501 IF J#(1)=" " TH THEN GOTO 500

502 LET SP=0 503 LET A\$="" 504 LET B#=""

505 FOR N=1 TO LEN J# 507 IF J#(N)=" " AND NOT SP THE N LET SP=1
508 IF Jm(N)=" " AND NOT SP THE

N GOTO 529 510 IF SP=0 THEN LET RS=RS+JS(N

515 IF SP>0 THEN LET B#=B#+J#(N

520 NEXT N 530 RETURN 1000 LET IS="YOU ARE IN A FOREST . THERE ARE PATHS LEADING NORTH

AND SOUTH" 1010 LET NO=1390 1015 LET SO=1030

1929 RETURN

1030 LET IS="YOU ARE IN A FOREST WITH PATHS LEADING NORTH AND E AST AND A CLEARING TO THE WES

1035 LET NO=1000 1040 LET ER=1090 1045 LET WE=1060 1050 RETURN

1060 LET I≢="YOU ARE IN A CLEARI IN THE CENTRE IS A TIME MA CHINE, WHICH LACKS A POWER SOURCE

E. EXIT EAST" 1070 LET ER=1030 1080 RETURN

1090 LET IS="YOU ARE IN A FOREST



THERE IS A PATH RUNNING EAST-W

1100 LET WE=1030 1105 LET EA=1120 1110 RETURN

1120 LET IS="YOU ARE IN THE FORE ST. THROUGH A GAP TO THE NORTH YOU CAN SEE ALAKE, THE PATH RUNS EAST-WEST AND THERE IS A CAVE

TO THE SOUTH" 1125 LET ER=1300 1130 LET WE=1090 1135 LET SO=1150

1140 RETURN 1150 LET IS="YOU ARE IN A SMALL CAVE. DAYLIGHT IS TO THE

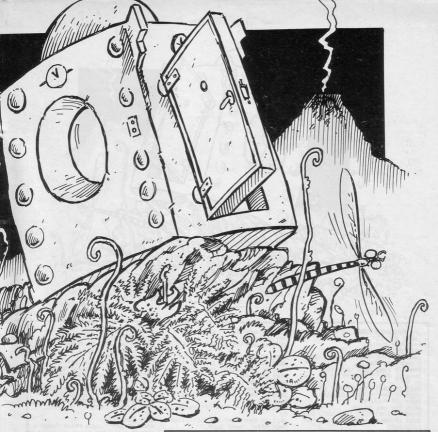
NORTH. THERE IS A DOOR TO THE WE ST AND AN OPENING TO THE SOUT 1160 LET SO=1190

1165 LET NO=1120 1170 RETURN

1180 LET IS="YOU ARE IN A LARGE CAVERN. THEREIS A CHEST LYING IN ONE CORNER, AND A SKELETON IN A NOTHER. THE ONLY EXIT IS TO THE

NORTH' 1190 LET NO=1150 1200 RETURN

1210 LET Is="I CAN""T SEE A THIN



EITH BEVAN, aged 14, of Stevenage, Herts wrote Timeslide, a 16K ZX-81 adventure game. Your time machine crashes in the dim and distant past. To return to your own time you must repair your craft. With trial and error, make a plan of your environment and collect the objects you think may be of use. The computer will accept direct commands, i.e., verbs followed by nouns. These are:

Take or get Drop or put Open Feed Look Swim Light Read Unlock Insert

The abbreviations for directions are N,S,E,W, and D for descend and C for climb. I will bring up the inventory and R repeats the description. Bevan sold his ZX-81 recently, this is his final offering before he upgrades to a Spectrum.

1220 LET UP=1150 1230 RETURN 1240 LET IS="YOU ARE IL A LONG P

ASSAGE. YOU CAN HEAR THE SOUND OF DRIPPING WATER. TO THE NORTH IS A FLIGHT OF STAIRS WITH A LA RGE DOG SLEEPING ON THE BOT OM STEP 1250 LET SU=1210

1260 RETURN

1290 LET IM="YOU ARE ON AN ISLAN D IN THE CENTRE OF THE LAKE. THERE IS A HOLE IN THE GROUND WITH A STAIR-CASE IN IT" 1280 LET DU=1240

1290 RETURN

1300 LET IS="YOU ARE BESIDE A LA

KE. THERE IS AN ISLAND IN THE MI DOLE OF THE LAKE. TO THE WEST I S THE FOREST AND TO THE NORTH IS A ROCKERY"

1310 LET NU=1330 1315 LET WE=1120

1320 RETURN 1320 KETURN 1330 LET I\$="YOU ARE IN A ROCKER Y. THE LAKE IS TO THE WEST, AND THERE ARE SOME REEDS TO THE N

1340 LET NO=1360 1345 LET SO=1300

ORTH"

1350 RETURN

1365 PRINT "I HAVE FALLEN INTO A SWAMP. GLUG....GLUG...GLU

G....." 1370 GOTO 9000

1370 LET I#="YOU ARE IN A SHRUBB ERY. THE FOREST IS TO THE SU UTH. THE LAKEIS TO THE EAST, AND

MEADOW IS TO THE NORTH" 1400 LET NO =1420 1405 LET SO=1000

1410 RETURN

1420 LET I#="YOU ARE IN A MEADOW THE LAKE ISTO THE SOUTH-EAST, TO THE SOUTH IS THE SHRUBBERY AN D TO THE EASTIS A TOWER"

1430 LET ER=1450 1435 LET SO=1390

1440 RETURN

1450 LET IS="YOU ARE AT THE FOOT OF A TOWER. THERE IS NO DOOR TO BE SEEN. TO THE WEST IS THE MEA DOW AND TO THE EAST ARE SOME R

1455 LET ER=1360 1460 LET WE=1420 1465 LET UP=1480 1470 RETURN

1480 LET IS="YOU ARE AT THE TOP



OF THE TOWER THERE IS NO DOOR UP 2565 IF B#="CHEST" AND NOT UNC T 3550 LET FED=1 HERE EITHER" HEN GOTO 100 3555 LET UP=1270 1490 LET DU=1450 1500 RETURN 2570 IF B&="CHEST" THEN PRINT "O 3560 PRINT "MUNCH, MUNCH" 3565 LET I(12)=1180 2000 IF 1>=5 THEN PRINT "I CON" 2575 IF BO-"CHEST" THEN PRINT "T 3570 GOTO 100 T CARRY ANYMORE" HERE IS NOTHING IN THE CHEST" 4000~IF SET=1120 OR SET=1270 OR 2005 IF I>=5 THEN GOTO 100 2010 IF B#="" THEN PRINT A#;" WH SE=1300 OR SET=1330 OR SET=1390 OR SET=1420 THEN PRINT "BRR. THE 2580 IF B#="CHEST" THEM GOTO 100 2585 GOTU 499 3000 IF BS="" THEN PRINT "UNLOCK 3005 IF BS="" THEN INPUT BS WATER IS TO COLD" 2013 IF B#="" THEN INPUT B# 2015 IF B#="" THEN GUTU 100 4005 IF SET=1120 UR SET=1270 UR 3010 IF B#="" THEN GOTO 3000 SE=1300 OR SET=1330 OR SET=1390 2020 LET FOUND=0 3011 CLS OR SET=1420 THEN GOTO 100 4010 PRINT "THERE 1S NO WATER HE 2025 FOR N=1 TO 12 2030 IF I(N)<>SET THEN GOTO 2055 3013 IF B#=" " THEN LET B#=B#(2 TO) RE 2033 IF O#(N)(>B#(1 TO 15) THEN 3015 IF B#="DOOR" AND SET<>1150 4015 GOTO 100 THEN PRINT "WHAT DUOR ?"
3020 IF B#="DOOR" AND SET<>1150 GOTO 2055 4500 IF BS="" THEN PRINT "DROP W 2035 PRINT "OK. . HAT ?" 2040 LET FOUND=1 3020 IF 84= DOUR HAD SELVISO THEN GOTO 100 3025 IF, IC7>0 THEN GOTO 499 3030 IF 84="DOUR" THEN LET UND=1 3035 IF UND=1 THEN PRINT "CLICK 4502 IF 80="" THEN INPUT 80 4503 IF 80="" THEN GOTU 4500 4505 FOR N=1 TU 12 4507 IF 80(1)=" " THEN LET 80=80 2045 LET I(N)=0 2050 LET I=I+1 2055 NEXT N 2060 IF FOUND=0 THEN COTO 499 (2 TO) 2065 GOTO 100 4508 IF B#(1)=" " THEN GOTO 4507 3040 IF UND=1 THEN GOTO 100 3045 IF B#="CHEST" AND SET<>1180 THEN PRINT "WHAT CHEST ?" 2500 IF BS="" THEN PRINT "OPEN W 4510 IF I(N)(>0 THEN GOTO 4545 HOT 21 3050 IF B#="CHEST" AND SET<>1180 4520 IF 0\$(N)<>B\$(1 TO 15) THEN 2505 IF B#="" THEN INPUT B# GUTU 4545 2510 IF B#="" THEN GOTO 2500 4530 LET I(N)=SET 4532 LET FOUND=1 3055 IF B#="CHEST" THEN LET UNC= 2515 IF B&="DOOR" AND SET<>1150 THEN PRINT "WHAT DOOR" 2520 IF B&="DOOR" AND SET<>1150 4535 PRINT "OK... 4540 LET I=I-1 4545 NEXT N 3060 IF B\$="CHEST" THEN PRINT "C LUNK" THEN GOTO 499 3065 IF 8#="CHEST" THEN GOTO 100 4555 GOTU 100 2525 IF BS="DOUR" AND UND=0 THEN 3070 GOTO 499 3500 IF B\$="" THEN PRINT "FEED W 5500 LET FOUND=0 PRINT "IT""S LOCKED DUMBO .. 5505 FOR N=1 TO 12 5510 IF I(N)<>0 THEN GOTO 5530 2530 IF B#="DOOR" AND UND=0 THEN HAT 7 3505 IF B#="" THEN INPUT B# 3510 IF B#="" THEN GOTO 3500 5515 IF NOT FOUND THEN PRINT **GOTO 499** 2535 IF B#="DOUR" THEN PRINT "TH HAVE THE FOLLOWING .. ERE IS A STAIR GOING DOWN. 3515 IF B\$<>"DOG" THEN PRINT "DO N""T BE SILLY" 3520 IF B\$<>"DOG" THEN COTO 499 5520 PRINT TAB 10," A ", 0\$(N) 2540 IF B#="DOOR" THEN LET DO=12 5525 LET FOUND=1 16 5530 NEXT N 2545 IF B#="DOOR" THEN GOTO 100 3525 IF SET<>1240 THEN PRINT "TH 5555 RETURN 2550 IF B#="CHEST" AND SET<>1180 THEN PRINT "I SEE NO CHEST" 2555 IF B#="CHEST" AND SET<>1180 6000 IF SET=1240 THEN GUTO 6100 6002 IF SET=1210 THEN LET SET=UF ERE IS NO DOG HERE" 3530 IF SET<>1240 THEN GOTO 100 3535 IF I(12)>0 THEN PRINT "I HR 6005 IF SET<>1450 THEN LET SET=U VE NO DOG FOOD" 3540 IF I(12)>0 THEN GOTO 100 THEN GOTO 100 2560 IF B\$="CHEST" AND NOT UNE T 6010 IF SET=UP THEN GOTO 20 6020 IF I(3)>0 THEN PRINT "THERE

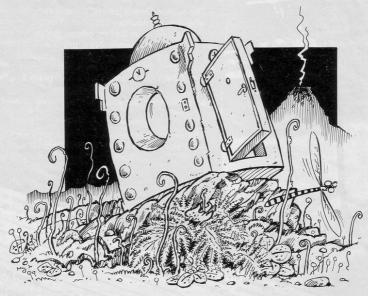
3545 LET I=I-1

HEN PRINT "IT""S LOCKED'

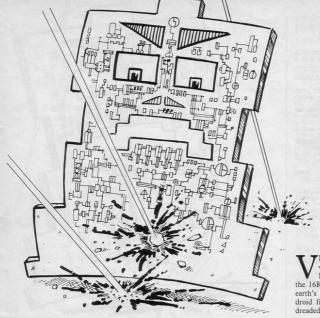
IS NO WAY UP 6030 IF I(3)>0 THEN GOTO 100 6040 IF UP>0 THEN LET SET=UP 6050 IF SET=UP THEN GUTU 20 "I CAN""T GO UP" SOCO PRINT 6070 GOTO 100 6100 IF FED=0 THEN PRINT "THERE" 'S A DOG IN THE WAY' 6110 IF FED=0 THEN GOTO 100 6120 LET SET=1270 6130 GOTO 20 6500 IF B*="" THEN PRINT A*; " W 6510 IF Bs="" THEN INPUT B\$ 6520 IF Bs="" THEN GOTO 6500 6530 IF B\$<>"MANUSCRIPT" THEN GO TO 499 6540 IF I(11)>0 AND SET(>1480 TH 6550 IF I(11)>0 AND SET(>1480 TH EN GOTO 100 6555 CLS 6560 PRINT "THE MANUSCRIPT SAYS! PPS - TM SLAND " 6570 GUTO 100 7000 IF SET(>1060 OR I(9) THEN C OTO 499 7010 PRINT "YOU HAVE SUCCESFULLY COMPLETED THE ADVENTURE." 7015 PRINT 7020 PRINT "YOUR TIME SHIP TAKES 7025 PRINT AT 14.12)"(6*15P)"
7025 PRINT AT 14.12)"(6*15P)"
7027 PRINT AT 15.12)"(13P)")TAB 7030 LET Z=INT (RND*250)+1995 7040 FOR A=2003 TO 1983 STEP -1 7050 PRINT AT 15,13,A

7060 NEXT A 7070 PRINT 7100 GOTO 9000 7500 IF B#="" THEN PRINT "LIGHT WHAT 7510 IF B\$="" THEN INPUT B\$ 7520 IF B\$="" THEN CUTU 7500 7530 IF I(8)>0 THEN CUTU 499 7540 IF SET=1210 THEN LET NO=124 7550 IF NO>0 THEN PRINT "YOU ARE IN A SMALL ROOM, THERE IS A ST AIR CASE TO THE EAST AND A DAMP PASSAGE TO THE NORTH." 7560 IF NUK >0 THEN GOTO 100 7570 PRINT "THAT DIDN" "T DO MUCH GOOD" 7580 GUTU 100 8000 CLS 8010 PRINT TIME SWITCH 8020 PRINT 8030 PRINT 8046~PRINT " YOU ARE STRANDED IN THE DIM AND DISTANT PAST. YO U MUST FIND YOUR WAY BACK TO YOU R OWN TIME USING WHAT YOU CAN F IND ON YOUR JOURNEY" 8050 PRINT AT 18,4; "PRESS A KEY TO START" 8060 IF INKEY**" THEN GOTO 8060 8070 GOTO 9500 9000 PRINT "DU YOU WANT TO TRY A GAIN Y OR N" 9010 INPUT B\$ 9020 IF B#="Y" THEN RUN 9030 STOP 9100 FAST 9101 CLS 9110 DIM I(12)

9128 DIM 0#(12,15) 9138 FOR N=1 TO 12 9148 LET X=INT (RND*15) 9145 LET I(N)=(X*36)+1000 9147 IF I(N)=1360 THEN GUTU 9140 9148~IF I(N)>1200 AND I(N)X1271 THEN GOTO 9140 9150 NEXT N 9160 LET I(9)=1270 9170 LET I(7)=1480 9180 LET 1(11)=1480 9190 LET I(3)=1060 9200 LET 0#(1)="ROPE" 9210 LET 0#(2)="ROCK" 9220 LET (\$(3)="LADDER" 9230 LET 0\$(4)="GOLD RING" 9240 LET 0#(5)="GUN" 9250 LET 0#(5)="13 AMP PLUG" 9260 LET 0#(7)="GOLDEN KEY" 9280 LET 0\$(8)="TORCH" 9290 LET U\$(9)="BATTERY 9300 LET 04(10)="LOG" 9310 LET 04(11)="MANUSCR1PT" 9320 LET 04(12)="MARROW-BONE" 9400 SLOW 9425 LET UND=0 9475 LET UNC=0 9480 GOTO 8000 9500 RETURN 9600 FOR N=1 TO 12 9605 LET P=P+1 9610 IF ICHD=SET THEN GOTO 9630 9615 IF P=12 THEN GOTO 90 9620 GOTO 9650 9630 IF NOT FOUND THEN PRINT "I CAN SEE A..." 9640 PRINT OS(N) 9650 NEXT N 9700 GOTO 100 9800 SAVE "Ts" 9900 GOTO 1







ENUSIAN INVASION was written by Andrew Kirk of Brough, North Humberside for the 16K ZX-81. You must protect the earth's defence shields with your android from the kamikaze raids of the dreaded Zanuzians.

GO SUB 5000: GO SUB 6000: G O SUB 7000: REM initialise, Ubus instructions

10 BORDER 1: PAPER 1: INK 2: 6 PRINT AT 19-k,0;"(31*193)" 20 IF ss>=2 THEN PRINT AT 19k,0;"(31*193)" 36 IF ss>=3 THEN PRINT AT 20-

k,0;"(31*193)"

40 IF ss>=4 THEN PRINT AT 21-,6;"(31*193)" 41 INK 6

45 PRINT AT 4,6; FLASH 1; 1NK 2) PAPER 7; "VENUZIANS ASSEMBLING

50 LET a=18-k-1: DIM a(32)

53 FOR f=1 TO 28 55 LET aa=INT (RND#32)

66 FOR 9=1 TO 32: IF aa=a(9) T HEN GO TO 55 70 NEXT 9

80 PRINT AT sx, aa) "(9a)"

100 LET a(f)=aa 105 NEXT F

110 LET J=28: FUR 9=0 TU 31 120 IF SUREEN\$ (sx,9)=" " THEN PRINT AT sx,9;"(9a)": LET a(J) 9: LET J=J+1: IF J=33 THEN GO

TO 140 130 NEXT 9

140 PRINT AT 4,6;"

200 FOR f=1 TO 3: FOR 9=50 TO -10 STEP -1: BEEP .005,9: NEXT 9:

210 LET f=1

220 IF hsc/9999 THEN LET hsc=0 230 PRINT AT 21,23)"HIGH:"/hsc

510 LET X=5X1 LET WERCED: LET =f+1: IF f=33 THEN GU SUB 2000: GO TO 10: REM all dropped

GU TU 10: REM all dropped S20 PRINT AT x-1,y; ",AT x,y; BRIGHT 1;"(9a)": LET x=x+1 \$25 BEEP 0,81, x=x+1 \$30 IF x=a+1 THEN PRINT AT x-1 y; BRIGHT 1;"(9a)": LET v=v+1: GU TU 5.10

531 PRINT AT 21,0; " VENUZIANS: ";

532 PRINT AT 21,13; "SCORE: ") sc 533 IF V=3 THEN LET V=0: PRINT AT 5.1:"THREE LANDED...ONE SHIE LD LESS!": FOR h=1 TO 3G: BEEP 0 1.h. NEXT h: PRINT AT a+s.0."

";AT 5,1;"
": LET s=s-1 534 IF s=0 THEN LET s=4: GO TO 4000

539 PRINT AT a,b;" " 540 IF INKEY#="O" UR 1NKEY#="U" THEN LET b=b-(b<>0): LET b1=1: IF SCREEN# (a,b x)" THEN LET

V=V-1: LET sc=sc+10 550 IF INKEY#="P" UR INKEY#="P" 530 IF INKEY##"P" UR INKEY##"P"
THEN LET b=b+(b<)31): LET b1#2
: IF SCREEN# (a,b)<>" THEN LE
T v=v-1: LET sc=sc+10:
560 PRINT INK 7; BRIGHT 1;AT a.

,b;b#(b1)

600 GO TO 520 2010 PRINT AT 7,7; "NEXT LEVEL .. " LET sc=sc+100 FUR f=1 TO 300 NEXT f: PRINT AT 17.0)"

IFT 4=4-1: | FT 1=1-1 2020 LET 35=35-1: IF 55=0 THEN BEEP 1,2: LET sx=sx+2: LET ss=4 2030 LET s=ss 2040 RETURN

4010 BEEP 1,1: 4020 PRINT AT 10,11; "GAME OVER": FOR G=1 TU 5: FUR F=0 TU 10: BE EP .02.f: NEXT f: NEXT 9: IF sc(hsc THEN GO TO 4500

4100 PAPER 3: BURDER 3: INK 6: C LS : INVERSE 1: PRINT AT 5,1,"YO U HAVE THE NEW HIGH SCORE OF"; AT 7.15)sc: INVERSE 8: LET hsc=sc: FUR f=1 TO 3: FUR 9=-20 TO 20: BEEP 0.01.9: NEXT 9: NEXT 6 4500 PAPER 2: BURDER 2: INK 6: C

LS : PRINT AT 10,10, "ANOTHER GU?

4510 IF INKEY#="9" UR INKEY#="Y"
THEN GO SUB 7000: LET sc=0: LE
T l=1: LET s=17: LET b=16: LET v
=0: LET s=4: LET ss=4: LET sx=0:
UU TO 10

4520 IF INKEY\$="n" OR INKEY\$="N"

THEN STOP 4530 GO TO 4510 5000 LET 1=1: LET a=17: LET b=16

LET V=0: LET s=4: LET ss=4: LE | sx=0: LET hsc=0: LET sc=0: LET | bs="(9c:9d)": LET b1=1

5010 RETURN 6010 FOR f=USR "a" TO USR "d"+7: READ XX: POKE f:XX: NEXT f: RET LIPN

6020 DATA 65,65,99,127,73,91,127 6030 DATA 28,127,73,109,127,99,6 5,65 6040 DATA 15,137,64,70,127,73,73 6050 DATA 240,145,2,98,254,146,1

7000 BRIGHT 1: PAPER 0: BORDER 0 INK 7 CLS PRINT ; "VENUZ IAN INVASION____

7010 PRINT AT 4,10; "INSTRUCTIONS

'";AT 7,10;"_____"
7030 PRINT AT 7,1;"You must Prot ect the Earth's defence shiel

ds from the kamikaze raid s of the dreaded VENUZIANS. If three of them are on the shield at any one time, that shield w ill collapse. You must squash t he ZANUZIANS by running over them with your BNTI-VENUZIBN ANDROID. If a VENUZIAN directly on t op of it, it will count as anot her one on the shield." 7040 PRINT FLASH 1; INK 1; PAPE R 6, AT 21, 0, " PRESS ANY

" PAUSE 0 KEY 7050 CLS : PRINT AT 2,5,"SCURES: Sqashing a VENUZI AN"; AT 5,5; "100 Destroying a wh ole attack wave 7055 PRINT AT 10,10; "KEYS ARE: ";

AT 12,10,"<<U P>>" 7056 PRINT AT 18,7,"SKILL LEVELS

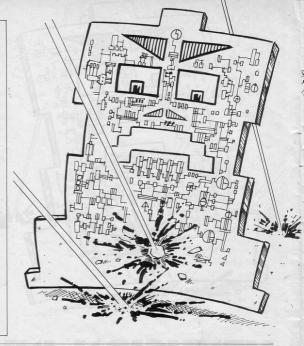
1-9)": LET k#=INKEY#: IF k#="" T HEN GO TO 7056 7057 IF CODE k#<49 OR CODE k#>57 THEN GO TO 7056

7058 LET k=VAL k#: PRINT AT 19,7 7058 LET k=VHL x=,
,"SKILL LEVEL: ";k
7059 FOR f=1 TO 100 NEXT f
7060 PRINT AT 21,0, INK 1, PAPER
PRESS ANY

KEY 7065 BRIGHT 0

7070 IF INKEYS="" THEN GO TO 70 70 7080 RETURN

9999 RUN



9000 CLEAR 28500: FOR m=28500 TU 28527: READ V: POKE n. V: NEXT n : RANDOMIZE USR 20500

9010 DATA 38,2,1,25,1,22,0,122,2 11,254,20,124,186,32,248,11,62,0 ,184,32,240,36,62,210,188,32,231 ,201

9020 BORDER 7

OUND EFFECT is a useful routine, written for the Spectrum by Paul Scott, aged 15, of Wimborne, Dorset. When you have typed the routine into the computer you can recall in using RANDOMIZE USR 28500. The routine, which is suitable for inclusion in a larger program, produces a whizzing sound and a striped border which flickers about very quickly.





```
RAND
  10 LET A#="0505060709121512100
910121510091011121314"
  15 LET EIRSTEIL
  20 DIM 8(20)
  30 FOR C=1 TO 20
  40 LET RCC )= VAL A#(2*C-1 TO 2*
  50 NEXT C
  68 DIM S(4)
  65 DIM U(4)
  70 DIM B(4)
  80 LET SCORE=0
  90 LET DEAD=0
 100 FOR C=1 TO 4
 110 LET S(C)=-1
 112 LET 0(C)=0
115 LET B(C)=0
 117 NEXT C
 118 LET S(1)=INT (RND#5+5)
 120 FOR C=0 TO 21
 130 PRINT AT C,0;"(30*15P)"
 140 NEXT C
 150 FOR C=5 TO 19 STEP 2
 160 PRINT AT C,1," (96: 96) ";A
" C+1,1;" (97: 97) "
 170 NEXT C
 180 PRINT AT 16,25," (94) ",AT
17,25;" (92:9e: 97:)",AT 18,25;
",AT 19,25;"(1sP:1*:1sP:1*
 190 LET PX=7
 191 SLOW
```

```
200 PRINT AT 16,PX; "(isp:9e:2*9
6:9r:isP)"
210 LET B(C)=B(C)+1
 220 LET K#=INKEY#
 225 LET PX=PX+(1 AND K#="8" AND
PX(19)-(1 AND K#="5" AND PX)6)
230 IF S(C)=-1 THEN GOTO 400
 240 LET BY=R(B(C))
 250~LET BX=S(U)+B(C)
 260 PRINT AT BY,BX;"(1*)"
270 PRINT AT U(C),BX-1;"(isp)"
 275 LET U(C)=BY
 276 PRINT AT 16,PX;"(1sp 9e 2*9
6:9r:15P)
 277 LET K#=INKEY#
278 LET PX=PX+(1 AND K#="8" AND
 278 LET PX=PX+(1 HND KB="8" HN
PX(19)-(1 RND KB="5" RND PX)6)
280 IF BY=15 THEN COTO 500
290 IF B(C)=20 THEN COTO 600
 300 GOTO 1000
 400 IF RND(=.9-SCORE*.05 THEN G
OTO 1000
 410 LET S(C)=INT (RND#5+5)
420 LET B(C)=0
 430 PRINT AT 4,6,"help";AT 4,6;
"(4*isP)"
 440 GOTO 1000
 500 IF BX=PX+2 OR BX=PX+3 THEN
```

510 PRINT AT 15,8X, "ouch", AT 15

530 PRINT AT 1, DEAD, "(1*)"

540 IF DERD<4 THEN GUTO 800

520 LET DEAD=DEAD+1

GOTO 1000

```
560 GOSUB 2040
 570 GOTO 80
600 PRINT ST 14,25; "(5%15P)"
 620 LET SCURE=SCURE+1
800 LET S(C)=-1
 810 LET O(C)=0
820 LET B(C)=0
1000 NEXT C
1010 GOTO 195
2000 LET FIRST=0
2010 PRINT RT 4,10) "(3*1*:1sp'fi
re:isp:3*1*)
2020 PRINT AT 6,6; "use the curso r keys 5+8"; AT 7,6; "to move the
sheet :1('9e'2*96'9r'1)"
2030 PRINT AT 9.6; "and 9et the P
2030 PRINT AT 9.6; "and 9et the P
eoPle"; AT 10,6; "safely to the am
bulance"
2040 PRINT AT 14,6; "Press any ke
y to start"
2050 IF INKEY#="" THEN GOTO 2050
2060 IF INKEY#<>"" THEN GOTO 206
2070 FOR Q=4 TO 14
2080 PRINT AT 0,6;"(24*isp)"
2090 NEXT 0
3000 RETURN
5000 CLEAR
5010 SAVE "FIRe"
```

SCURE

5020 RUN

192 IF FIRST=1 THEN GOSUB 2000

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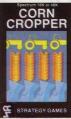
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PLANE SAILING



AIRLINE A wing and a prayer will not be enough to turn your £3 million to £30 million in the time allowed, but your financial wizardry will enable you to take over British Airways, or will 1t? Purs on ZX81 16K — £5 and Spectrum 16K/48K



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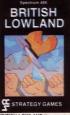
PRINT SHOP In print shop are scheduling, staffing, purchasing and quoting within this time limit will test your business accumen to the full and weekly balance sheets will prove the quality of your decision making. Runs on ZX81 16K — £5



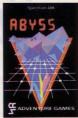
PLUNDER Can you singe the King of Spain's beard. Engage the Spanish ships on the high seas survive their broadsides and plunder the gold destined for the Armada and you might get your Knighthood before Francis Drake. Runs on Spectrum 48K — £6.



GANGSTER Are you cold hearted and callous enough to warrant the title of Don. You need to be if you are to rise to the top of the pile. A quick trigger finger and an even quicker brain are needed to control the mobs and their rackets. Runs on Spectrum 48K — £6.



BRITISH LOWLAND You are given a racing start for your small sports car company but you have an overdraft to repay and a workforce to be kept happy. Sizer your way to success with careful management and industrial relations. Runs on Spectrum 48K — 26.



ABYSS Can you journey across the long-forgotten Abyss and outwit the evil monsters that lurk in the shadows awaiting the foothardy and careless adventurer. There are many bridges and many monsters. Will you be the one to make the Abyss safe to cross again: Runs on Spectrum 48K — £5.



BYTE Complete the ten circuits you need to build your computer system then return home. Easy. Byte has sent its electronic monsters to harry you through this three dimensional maze of circuitry, if any of them catch you ... Huns on Spectrum 48K — £5.



CAMELOT As the banished Arthur Pendragon you must find seven treasures without falling prey to the Brigands, Dragons and Evil Magicians that stand in your way and make a triumphant return to Camelot to be crowned King. Buns on ZX81 16K — £5 and Spectrum 48K — £5.

Available from W H Smith, Boots, Rumbelows and all good computer shops or Cases Computer Simulations Ltd., 14 Langton Way, London SE3 7TL.



Strategy Games. They're no pushover



10 PRINT AT 0.6; "NUUCHTS ROSSES";AT 1,6;"(18*97)" 20 PRINT AT 8,7;"HOW MANY PLAY ERS?"; AT 10,12;"(1,UR 2)" 30 IF INKEY\$<>"2" AND INKEY\$<> "1" THEN GOTO 30 40 LET P=VAL INKEY\$ 45 DIM S(3) 50 LET S(1)=0 55 LET S(2)=0 60 DIM B\$(3,9) 65 LET S(3)=0 70 IF P=2 THEN GOTO 120 80 PRINT AT 8,7; WHAT IS YOUR NAME?")AT 10,12;" 90 INPUT B\$(1) 100 LET B\$(2)=" ZX-81 110 GOTO 160 120 PRINT AT 8,4; "WHAT IS PLAYE R 1""S NAME?"; AT 10, 12; " 130 INPUT B#(1) 140 PRINT AT 8,19; "2" 150 INPUT B\$(2) 160 PRINT AT 8,4;" ") AT 3,0) "PLAYER 1") A T 3,23; "PLAYER 2" 170 PRINT AT 5,0;8\$(1);AT 5,23; 日報(2) 175 LET PG=1

185 LET C=0 190 PRINT AT 7,10; "(4*sp:1sp:3* sp:isp)","(10*sp:1:3*sp:1sp:3*sp :isp)","(14*sp:isp:3*sp:isp)","(11*sp:11*1sp)","(14*sp:1sp:3*sp: isp)","(10*sp:2:3*sp:1sp:3*sp:is P)","(14*sP:isP:3*sP:isP)","(11* sp:11*isp)","(14*sp:1sp:3*sp:1sp :ap)","(10*sp:3:4*sp:isp:3*sp:is P)","(14*sP:isP:3*sP:isP)" 195 PRINT AT 18,12;"A B 200 DIM A\$(3,3) 205 LET G=PG 210 IF C=9 THEN GOTO 850 215 PRINT AT 4,0; "(30*sp)"; AT 2 .0; "(29*sp)"; AT 4, (G-1)*23; "(8*9 s)";AT 2,(G-1)*23;"(8*9d)" 220 LET C=C+1 225 LET 2#=("0" AND G=1)+("X" A ND G=2) 230 IF G=2 AND P=1 THEN GOTO 60 240 INPUT MS 245 IF LEN M\$<>2 THEN GOTO 500

<1 OR M\$<2><>"A" AND M\$<2><>"B"
AND M\$<2><>"C" THEN GOTO 500
260 LET A=YAL M\$<1>
270 LET B=CODE M\$<2>-37
280 IF A\$(A) B<

250 IF VAL M#(1)>3 OR VAL M#(1)

290 PRINT AT (A*4)+4,(B*4)+8;2\$ 300 LET A#(A,B)=Z# 310 JF A#(1)=Z#+Z#+Z# OR A#(2)= 28+28+28 OR A\$(3)=28+28+28 OR A\$ (1,1)=2\$ AND A\$(2,2)=2\$ AND A\$(3 ,3)=Z\$ OR A\$(1,3)=Z\$ AND A\$(2,2) =Z\$ AND A\$(3,1)=Z\$ THEN GUTU 100

ND A\$(2,2)=Z\$ AND A\$(3,2)=Z\$ OR (3,1)=" ") A\$(1,3)=Z\$ AND A\$(2,3)=Z\$ AND A\$ 730 IF M\$(>"" THEN GOTO 260 (3,3)=Z\$ THEN GOTO 1000

330 LET G=G+1

340 IF G=3 THEN LET G=1

350 GOTO 210

490 STOP

500 PRINT AT 20,4; "INVALID MOVE , TRY AGAIN." 70

510 FOR F=0 TO 20 520 NEXT F

530 PRINT AT 20,4;"

540 GOTO 240

600 LET 8=0 605 IF CK=3 THEN COTO 770

610 LET FS="X" 620 FOR 8=1 TO 3

630 LET B=(1 AND A\$(A)=" "+F\$+F 1010 NEXT F \$)+(2 AND A\$(A)=F\$+" "+F\$)+(3 AN 1015 FOR F=7 TO 18 D A\$(A)=F\$+F\$+" ")

640 IF B>0 THEN GOTO 290

650 NEXT A 660 LET A=0

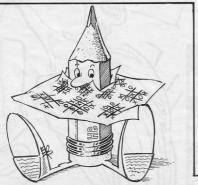
670 FOR B=1 TO 3

AND As(1,B)=Fs AND As(2,B)=" " A ND A#(3,B)=F#)+(3 AND A#(1,B)=F# 1050 FOR F=1 TO C AND A\$(2,B)=F\$ AND A\$(3,B)=" ") 1060 LET G=G+1

690 IF 8>0 THEN GOTO 290

700 NEXT B 705 | FT Ms=""

710 LET Ms=("18" AND As(1,1)=" " AND A\$(2,2)=F\$ AND A\$(3,3)=F\$)



+("2B" AND A\$(1,1)=F\$ AND A\$(2,2)=" " AND A\$(3,3)=F\$)+("30" AND A\$(1,1)=F\$ AND A\$(2,2)=F\$ AND A\$ (3,3)=" ")

715 IF M\$<>"" THEN GOTO 260 720 LET Ma=("10" AND Am(1,3)=" " AND As(2,2)=Fs AND As(3,1)=Fs) \$ AND A\$(3,1)=2\$ OR A\$(1,2)=2\$ A A\$(1,3)=F\$ AND A\$(2,2)=F\$ AND A\$

740 IF F#="0" THEN GOTO 770

750 LET F#="0" 760 GOTO 620

770 LET A=INT (RND*3)+1 775 LET B=INT (RND*3)+1

780 IF A\$(A,B)<>" " THEN GOTO 7

785 IF C=2 AND A\$(2,2)=" " THEN COTO 800

790 GOTO 290 800 LET A=2 810 LET B=2

820 GOTO 290 860 LET G=3

870 LET B\$(G)=" NOBODY" 1000 FOR F=0 TO 20

1020 PRINT AT F,10;"

1025 NEXT F 1030 PRINT AT 9,8;"********** ***"; AT 10,8; "*"; B\$(G); " WINS*";

1037 LET G=2

1065 IF G=3 THEN LET G=1

1070 NEXT F

1080 PRINT AT 7,0;"(2*1sp:95)";5 (1); "(97:7*1sp:95:SCORE:97:8*1sp

)";S(2);"(97:2*isP)" 1090 FOR F=0 TO 4E4

1095 PRINT AT 13,10; "Press any k ey";AT 13,10;"

1100 IF INKEYS="" THEN NEXT F 1105 FOR F=9 TO 11

1106 PRINT AT F.8;"

1108 NEXT F 1110 PRINT AT 7,0;"

1120 IF S(1)=9 OR S(2)=9 THEN ST

1130 LET :PG=PG+1

1140 IF PG=3 THEN LET PG=1 1500 GOTO 185

2990 STOP 3000 SAVE "NAC"

3010 RUN

top articles that have previously appeared in our U.K. magazines.

AMERICAN look at your Sinclair! With the new Timex Sinclair User magazine to link YOU into a huge network of American enthusiasts The success of the Sinclair ZX80, ZX81 and Spectrum in the U.K. has been phenomenal. But in the States the Sinclair has been given a real American welcome making the Sinclair range the biggest seller in the world! The American ZX81 equivalent: "The Timex Sinclair 1000" from the giant Timex organisation, has been bought by hundreds of thousands of enthusiasts. The success of 'Sinclair User' magazine in the U.K. followed a similar pattern - so now we're matching the U.S.A. enthusiasm with a brand new U.S.A. magazine - the Timex Sinclair User! The first issue will be published in the U.S.A. in May packed with news, reviews, programs and User Club information to link you into the vast American Timex Sinclair user network Remember, this is a new magazine written from the American viewpoint - but it could open up whole new horizons for you on your Sinclair enjoyment. Take the new, American view by ordering right away and see how the U.S.A. welcomed the Sinclair! Annual subscription rate is £20. Single copies are £2.00 each (including P & P). Fill in the order form NOW to get the first issues of this exciting new magazine. Send to: TIMEX SINCLAIR USER, ECC Publications Ltd., 196-200 Balls Pond Rd, London N1 4AQ Yes, I want to subscribe to TIMEX SINCLAIR USER at the special U.K. rate of £20 for 12 issues delivered to my door. Name Address I enclose a cheque/P.O. for £ Please charge my credit card Card Name Card Number Signature Date N.B. This offer applies to UK subscribers only. Overseas rates available on request. N.B. Subscribers to Sinclair User, Sinclair Programs or Sinclair Projects should be aware tha

2 CLS

3 LET HI=0 5 LET 2=0

7 LET SCORE=0

10 PRINT "HELLO, ANYONE THERE?"

11 PAUSE 200

12 PRINT "WELL PRESS SOMETHING THEN"

13 PRINT

14 IF INKEY⊕="" THEN GOTO 13 20 PRINT "A RANDOM NUMBER WILL

APPEAR ON THE SCREEN FOR A SET TIME, YOU HAVE TO TYPE IT BACK

25 PRINT "SELECT LEVEL 1(HARD) OR LEVEL 2 (VERY HARD"

30 PRINT

40 PRINT "SELECT LEVEL 1(HARD OR 2(SUICIDE"



60 IF A\$="1" THEN LET TIME=6.7

70 IF As="2" THEN LET TIME=2.7

80 LET X=INT (RND*999)+1

90 LET C=INT (RND*28)

100 LET D=INT (RHD*18)

110 CLS

130 PRINT AT D.C.X

140 PAUSE TIME

150 CLS

160 INPUT B

170 IF X=B THEN PRINT AT 0,0)"c orrect"

175 IF X=B THEN LET SCORE=SCORE

180 IF BK >X THEN PRINT AT 0.0)"

184 PAUSE 4E4

190 CLS

200 LET Z=Z+1

202 IF ZK10 THEN GOTO 220

205 PRINT AT 0.0; "score=" 210 PRINT AT 0.7; SCORE

210 PRINT HT 0,7,5CORE 211 IF SCORE<=HI THEN GOTO 218

212 LET HI=SCURE

213 PRINT "YOU HAVE ACHIEVED THE HI-SCORE, ENTER YOUR NAME"

HI-SCURE,ENTE 214 INPUT H#

215 PRINT AT 13,8; "hi="

217 PRINT AT 13,13;HI;" BY ";H\$

218 PAUSE 4E4 219 GOTO 0

220 GOTO 80

230 SAVE "NUMBER FLASH"

240 RUN

TUMBER FLASH

RWILLIAMSON aged 11, of Hucknall, Notts, wrote Number Flash for the 16K ZX-81. Set your level at difficult, or suicidal, then enter the number flashed before your eyes.

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GAMES THAT FIGHT BACK!

YES THEY'RE TOUGH — BUT YOU'VE GOT TO ADMIT — THEY'RE FUN.









THE ZONE



BRCBCC

SO FAR YOU HAVE RACED FOR YOUR LIFE AGAINST ANDROID CARS: YOU HAVE BEEN STRANDED MILES UNDERGROUND SEARCHING FOR DIAMONDS, YOU HAVE TAKEN ON THE MAFIA SINGLE HANDED AND SAVED A PLANET FROM EXTINCTION.

.....NOW IN OUR LATEST GAME YOU ARE A BURGLAR IN SEARCH OF LOOT — IN HOT PURSUIT ARE THE MOST FEARFUL SECURITY FORCE EVER ASSEMBLED!

EVEN IF YOU SURVIVE ALL THIS — BEYOND, LIES THE TERROR OF THE ZONE!!

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DOOMSDAY CASTLE

is an arcade style game with the feel of a real adventure

Doomsday Castle consists of a labyrinth of 76 complexly inter-connected Halls and Passages where you will meet a whole host of adversaries serving the infinitely evil Scarthax, the Garthrogs, the Orphacs, the phenomenally nasty Googly Bird and the Urks which manifest themselves in over fifty unbelievably weird and wonderful guises.

Scarthax has scoured the Universe to bring together the six ancient stones of lifeforce. United in Doomsday Castle they are being used to wield an irresistable power over the cosmos, emanating

waves of corruption through every galaxy.

To save the Universe, you must battle your way through the Castle to find and collect the six

stones and use their force against Scarthax to destroy Doomsday Castle, hopefully escaping vourself before the final cataclysmic explosion. The task is not easy (saving the Universe never is! and it will take youmany games to unfold the structure of Doomsday Castle and discover the locations of the ancient stones. The addictive arcade style action will keep you coming back to play but the overall challenge should still keep you occupied for months.





You take on the role of our super hero ZIGGY shown here above in his exploratory capsule in combat with an Urk disguised as a pangalactic gargleblaster [II] This is a true representation of the on-screen graphics.

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MINER

INER for the 16K ZX-81 was submitted by Philip Turner of Warley, West Midlands. A lift will take you into the mine, where you have to search for gold while avoiding the hazards. On clearing the mine, enter the lift to return to the surface, where you will be able to deposit your gold in the bank. Use cursor keys 5, 6, 7 and 8.

```
1 GGTG 1000
100 POKE MA, CH
102 IF I=1 THEN GOSUB 3300
103 IF PEEK MA=8 THEN LET DE=1
104 IF U=1 THEN GOSUB 3200
105 POKE LI 128
106 IF DE=1 THEN GOTO 4000
110 LET P$=INKEY$
120 LET D=(P$="8") - (P$="5") +33*
(P$="6") - (P$="7")
123 IF D=0 THEN IF PEEK (MA+DD)
125 POKE LI 0
125 POKE LI 0
LET DD=D
125 IF D<0 THEN IF DD<127 JP
127 JP
128 JP D<0 THEN JP DD<127 JP
129 JP
120 JP
120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NEXT
LET
LET
LET
LET
LET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1100
1110
1120
1130
1140
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LI=L+35
MA=L+45
CH=23
MO=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CA=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1150 LET
1160 LET
1170 LET
1180 LET
1200 LET
1210 LET
1210 LET
1210 LET
1220 LET
1230 GOT
2000 LET
2005 IF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SC0=100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DD=Ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              U=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US="GOLD ROCK SAND GAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P=L+33*21-1
DE=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LET V=0
GOTO 100
LET R=INT (RND*5)+1
IF R=5 THEN IF I=1 THEN GOT
                130 IF PEEK (MA+D) =0 THEN GOTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 2000
2007
2010 P
2020 P
2030 P
                               140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           00

LET V=V+1

POKE MA,0

LET MAHAMA+D

PER MAHAMA+S-4 TO R*S)

PRINT S=1 0,4;H$

GOTO (2000+R*100)

LET GL=INT (RND*20)+10

PRINT AT 0,6;"-";GL;" N
                                                                                         IF PEEK
                                                                                                                                                                                                          (MA+D) = 128 THEN GOT
                                                                                         IF PEEK (MA+D) = 155 THEN GOT
                          0 2000
150 IF PEEK (MA+D)=133 THEN GOT 2040
150 IF PEEK (MA+D)=133 THEN GOT 2040
2050
170 IF U=1 THEN GOSUB 3200
2100
2100
2100 2110
205 LET HA=MA+D
205 LET CH=23
210 POKE MA,CH
2215 POKE MA,CH
220 GOTO 100
2150 GOTO 100
2150 LET MA=MA+D
2150 LET MA=MA+D
2150 FEEK MA-D
2150 GOTO 100
2150 LET MA=MA+D
2150 GOTO 100
2150 LET MA=MA+D
2150 AND PEEK (MA-1)=136 THEN GO 2150
2170
2180 AND PEEK (MA-1)=136 THEN GO 2160
                                             2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2030
2040
2050
2060
2110
75"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUGGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LET CA=CA+GL
LET MO=MO+GL*(INT (RND*5)+3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FOR 0=1 TO
POKE MA,136
POKE MA,CH
NEXT 0
                220 GDTD 100

510 LET MR=MA+D

513 IF D=-1 THEN IF PEEK (MA-2) 2170

1136 AND PEEK (MA-1)=136 THEN GG 2180

TO 700

515 IF CH=151 AND ABS D=33 THEN 2190

LET LISHA

517 IF CH=151 AND LI<>MA THEN L 2200

2204

2210

2220

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2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINT AT 0,4;"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GOTO 100 PRINT AT 0,5;" FUEL ";
PRINT TOU USE DRILL"
PRINT AT 1.6; "LOSE MON
POR 0 #16
POR 0 #16
POKE MA; 134
NEXT 0
LET SCO=SCO-25
PRINT AT 0,5;"
                          517 IF CH=151 AND LI () MA THEN TCH=23 POKE MA, CH 530 POKE MA, CH 530 POKE MA-D, 0 540 IF MA=LI THEN LET CH=151 650 GOTO 100 TO 100 POKE MA+1 THEN GOTO 515 THEN GOTO 100 POKE MA+23 THEN GOTO 100 POKE MA+33 TO POKE MA+33 TO POKE MA-33 TO POKE MA-39 POK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2202
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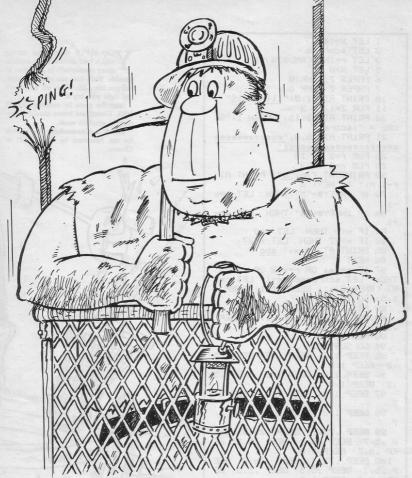
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## 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINT AT 1,3; "RISK OF LOSIN
LO"
LET CA="INT (CA*.4+.5)
FER MO="INT (MO*.6+.5)
FER MO="INT (RND*10)
POR DE MO 1,3; "
"; AT 0,4;"
"GOTO 100
LET GA=MA
LET GA=MA
LET U=1
FOR 0=1 TO 30
POKE MA,137
POKE MA,14; "
"GOTO 100
PRINT AT 0,4; "FLOODING"
POKE MA,48
POKE MA,
                                                                                                                                                                                                                                                                              THEN GOTO 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2380
                                                                                         STOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1005 PRINT
                     1010 FOR D=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2510
2510
2520
25340
25540
25570
                     1030 NEXT D
                   1045 PRINT AT 1,23;"000100"
1050 LET L=PEEK 16396+256*PEEK 1
6397+1
                   1050 FOR A=1 TO 40
1070 LET X=INT (RND*660)+L+66
1080 IF PEEK X<>128 THEN GOTO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3002 LET
                     1090 POKE X,155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I=Ø
```





1 LET X=10 2 LET score=0 3 LET r=INT (RND*30)+1 5 LET W=0 6 PAPER 7: INK Ø 7 PAPER 7: INK 0 10 PRINT AT 21,0;"111=LIVES" 11 FOR Z=1 TO 3 20 PRINT AT 21,15; FLASH 1; "SC ORE = ";score 21 PRINT AT 20,0; "eeeeeeeee eseceeseseseseses 23 FOR f=2 TO 19 25 FOR n=0 TO 3 30 PRINT AT fini "d" : PRINT AT f-1, m; " " : NEXT n 70 IF INKEY="5" THEN LET X=X 88 IF INKEY = "8" THEN LET X=X 81 IF x<0 THEN LET x=0 82 IF x>27 THEN LET x=27 85 PRINT AT 19,x;" abc 86 NEXT f 87 1F r=x+1 OR r=x+2 OR r=x+3 MEN LET score=score+1: LET r=1 THEN NT (RND*30)+1: BEEP .1,1: BEEP . 1,5: GO TO 20 88 PRINT AT 21, Z-1;" " 89 BEEP .1,1: BEEP .1,2: BEEP .1,3: BEEP .1,4: BEEP .1,5 90 NEXT Z 94 GO SUB 105 95 BEEP 1,0: BEEP 1,2: BEEP .5 ,2: BEEP 1,0 96 BEEP 1,0: BEEP 1,2: BEEP .5 ,2: BEEP 1,0 97 BEEP 1,3: BEEP 1,5: BEEP 2, 98 BEEP 1,3: BEEP 1,5: BEEP 2, 99 BEEP .75,7: BEEP .25,8: BEE P .5,7: BEEP .5,5: BEEP .5,3: BE EP .5,2: BEEP 1,0 100 BEEP .75,7: BEEP .25,8: BEE P .5.7: BEEP .5.5: BEEP .5.3: BE EP .5,2: BEEP 1,0 101 BEEP 1,0: BEEP 1,-5: BEEP 2 ,0 102 BEEP 1,0: BEEP 1,-5: BEEP 2 103 CLS

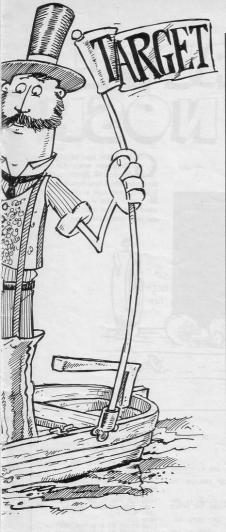
You HAVE three lives, during which your objective is to catch as many cannonballs in your boat as possible. Each time you miss a cannonball you lose a life. Move left with key 5 and right with key 8.

Start the game by entering GOTO 1003. Underlined letters should be entered in graphics mode.

Catch a Cannonball was written for the Spectrum by Brett Marl of Chester.



CATCH A C



104 GO TO 1000 105 PRINT AT 0,0;" fah fah fah fah fah fah fah kui kui kui kji kji kji kji kji fah fah fah fah fah fah fah kui kui kui kji kji kji kji kji m m m 106 PRINT 107 PRINT " foh foh foh foh fah fah fah kui kui kui kui kui kji kji kji m m m m In m m <u>fah fah fah fah fah</u> fah fah fah kui kui kui kui kui kji kji kji m m m m " m 108 RETURN 1000 INPUT "DO YOU WANT ANOTHER G07") A\$ 1002 GO TO 1 1003 FOR n=0 TO 104 1004 READ x 1005 POKE USR "a"+n,x 1006 NEXT n: GO TO 1020 1007 DATA 0,255,128,255,64,63,16 , 15 1008 DATA 0,255,0,255,0,255,0,25 1009 DATA 0,255,1,255,2,252,8,24 1010 DATA 0,60,110,70,110,126,60 ,13 1011 DATA 255,0,0,0,0,0,0,0 1012 DATA 0,0,0,0,0,0,0,63 1013 DATA 0,24,60,60,40,60,60,25 1014 DATA 0,0,0,0,0,0,0,252 1015 DATA 246,246,252,0,0,0,0,0 1016 DATA 255,231,255,60,60,60,6 0,60 1017 DATA 111,111,63,0,0,0,0,0 1018 DATA 0,0,0,0,255,66,60,24 1019 DATA 60,60,60,60,60,60,60,2 1020 PRINT AT 10,10;" READY PRESS A KEY TO

1021 PAUSE 0 1022 CLS : GO TO 1

ANNONBALL



,66,60 20 DRTR 16.8.42.127.127.127.62

,28 22 DATA 60,126,201,237,255,129

,66,60 24 DATA 0,8,8,8,42,28,8,0

26 GO SUB 9000 30 LET x=10: LET y=15

50 FOR n=1 TO 35 51 PRINT AT RND*20, RND*30; PAF ER 1) INK 41"(9b)" | BEEP .0009,R ND#30+20 52 NEXT n

100 LET a=INT (RND*20): LET b=I (RND*30)

140 PRINT AT a,b; INK 4; PAPER

1)"(9b)"
150 IF x=a AND y=b THEN GO TO 2000

210 LET x=x+(INKEY#="6" AND x(2 0)-(INKEY#="7" AND x>0) 220 LET y=y+(INKEY\$="8" AND y(3

1)-(INKEY®="5" AND 9-20) 500 PRINT AT X 191 INK 6)"(91)" 520 PRINT AT X 191 INK 6)"(90)" 521 BEEP .0009;55: BEEP .0005,6

999 PRINT AT XXXX

1000 GO TO 140 2000 FOR n=0 TO 21

2010 PRINT AT n.0; INK 4; "C32*9b 2015 OUT 100,20: OUT 100,130: OU

T 100,140 2020 NEXT n 2030 PRINT AT 10,1; FLASH 1; INK

0) PAPER 7, "YOU FOUND THE APPLE 2031 IF ht>t THEN LET ht=t: GO

TO 5000 2032 PRINT AT 12,1; PAPER 6; INK 0; "TIME TAKEN "; t 2033 PRINT AT 14,1; PAPER 6; INK

2035 FRINT HI 14,11 PHIFER 6; INK 0; "GUILCKEST TIME "; ht 2035 FOR n=1 TO 7: BORDER n: PAU SE 20: NEXT n: BORDER 1 2060 PRINT AT 16,11 PAPER 7; INK 0; a; best so far"

7; FLASH 1; "Any key for another

90" 2110 PAUSE 0

2115 LET t=0 2120 CLS : BORDER 1: GO TO 30 5000 CLS : PRINT AT 10,2;"YOU HA

5020 GO TO 2050 9000 LET t=0: LET ht=999999 9010 PRINT AT 9.8: 1NK 4: PAPER

1;"(12*9b)" 9020 PRINT AT 10,8; INK 4;"(9b:1 0*sP:9b)

9030 PRINT AT 10,9; INK 6; FLASH 1; PAPER 2; "APPLE-NOSH" 9040 PRINT AT 11,8; INK 4; PAPER

1;"(12*9b)" 9060 FOR f=0 TO 200: OUT 200,200 : OUT 200,250: OUT 10,10: OUT 20 ,20: NEXT f

9078 CLS 9100 PRINT AT 0.8;"INSTRUCTIONS" 9110 PRINT AT 4.2;"The idea is to 0 eat the (9b) and try to 9et the mystery apple in the qui

ckest time ." 9120 PRINT AT 10,2; "Move (91) wi th keys:";AT 13,3;"1 2 3 4 5 6 7

9 9 A 9130 PRINT AT 15,5,"

9140 PRINT AT 20,8; "Any key to P

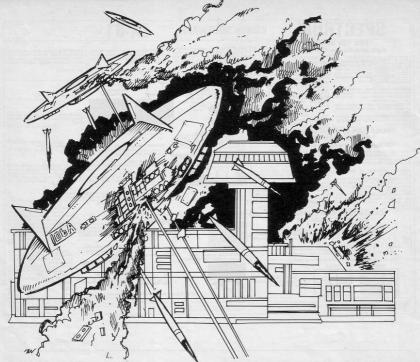
189" 9300 PAUSE 0

9400 CLS 9500 RETURN

ZX-81 **ORWIN SOFTWARE** FOR 16K SPECTRUM CASSETTE 3; eight programs lincluding in machine code): Starship Trojan, Sta-trek, Princess of Kraal, Battle, Cube, Kala-briasz, Secret Messages, Martian Cricket (will also run on 48K Spectrum) CASSETTE A GHOST GOBBLER Eat the ghosts before the ghosts eat you. Eat a star and you can chase the ghosts for a while. for 16K ZX-81 for 1K ZX-81 for 16K ZX-81 PHOEBUS A puzzle, BLACKS/POT Gobble the stars running into black spots creates ing your own path. CUBE Manipulate a cube any 2×2×2 to 7×7×7. MNEFELD Collect the crow avoiding the mines and the 8 games for 16K ZX-81 INVADERS ntity as well as quality" Sinclair User, Oct '82 LASER DEFENCE Control the laser sight to shoot down the alien ships. Machine code ZX Computing, Oct/Nov '82 **EDUCATIONAL COMPENDIUM FOR** 16K/48K SPECTRUM £6 All these programs on one cassette. Easy to operate, graphically impressive nd good value for money." The Times, 11th Dec '82 TORTRAIL & TORTMAZE: 16K using the forward, left and rigl mands. These are good for learnin ing for distances and angles and ar TORTOISE GRAPHICS: an educational 3D TIC-TAC-TOE (Basic) Played on a 4 × 4 × 4 board, this is a game for the brain. It is very hard to beat the computer at it.







CLS

SO CO SUB 900

30 GD SUB 700 35 GO SUB 800

40 GO SUB 300

45 GO SUB 100

50 IF htt/) THEN CO SUB 100 70 PRINT 1NK 5; OVER 0;AT 19, 6;PO; " "AT 19,25;sc;AT 20,6;1z; AT 20,15;tho;AT 20,25;k; 80 IF P<0 THEN GO TO 600

90 GO TO 40

188 LET uxomux: LET usomus

101 LET us=INKEYS 105 IF us="" THEN RETURN

106 IF us="m" OR us="n" THEN G

U TU 150 110 LET ux=ux+(u\$="P" AND ux(29

-(us="1" AND ux>2) 126 LET us=us+(us="z" AND us<13)-(us="4" AND us>2)

125 IF ux=uxo AND us=uso THEN RETURN

138 PRINT INK 7;AT uso,uxo;"a"; INK 6;AT uso,uxo;"a"; LET PO=PO-1: BEEP .005,20-us; RETURN

150 INK 5: LET PO=PO-10 155 LET 1z=1z+1: LET 1cx=ux*8+4

* LET tcy=(21-u9)#6+4 160 FOR n=1 TO 2: BEEP .04,6' B EEP .02,12 PLUT 8,56' DRAW tcx= 8,1cy=56: INK 7' NEXT n 175 INK 6: FUR n=1 TO 2: PRINT

AT 09.0x-1;">9<": BEEP .03.24: I IK 7: NEXT n 180 IF NUT (uy=ty AND ux>=tx-df NK

AND ux(tx+df+LEN ts) THEN INK 5 RETURN 200 OVER 1: LET ht=0: LET k1=k1

+1: LET sc=sc+100-LEN ts*10 210 FOR n=1 TO 4: PRINT AT uy-1 220 RETURN

300 IF ht=1 THEN GO TO 360 302 LET two=ty: LET txo=tx 305 LET us=ts: LET tx=tx+1 310 IF ty>=12 THEN LET tc=-1 311 IF ty<=4 THEN LET tc=-1

312 LET ty=ty+tc+(INT (RND*2) A

355 IF tx<=27 THEN RETURN 360 PRINT INK 7:8T ty:tx:t#: L

+INT (RND#6): LET tc=1: LET ht=0

375 LET t#="b" 388 PRINT INK 4:81 ty.tx:t# 385 RETURN

600 FOR n=0 TO 74: INK n/10: BE EP .06, n-50: PRINT AT 10,8; "- M1 SSIUN ENDED -": NEXT n

640 FOR n=0 TO 74: BURDER 7-n/1

GHO THE MED IN CAP BURNDER 7-M/1

GHO BEEP, 05, M-20** NEXT **

608 INPUT INK 6, THE 6; "ANOTHER MISSION? "JUB**

608 IF us**"" THEN GO TO 9999

608 IF US**"" THEN GO TO 9999

708 INPUT INK 2; "DIFFICULTY**

(hand) on 1 "jus** IF r8K2"8" THE

N LET r8**"!"

AGE LET MESWELL**

LET r8**"!"

AGE LET MESWELL**

LET MESWELL**

AGE LET MESWELL*

AGE LET MESWELL**

AGE LET MESWELL*

AGE 705 LET df=VAL r\$

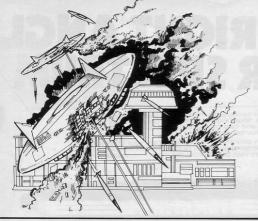
710 LET ux=10: LET uy=10 715 LET uxo=ux: LET uyo=uy 720 LET tx=4: LET ty=2: LET txo

=tx: LET tyo=ty: LET tc=1 738 LET PO=999: LET sc=6: LET k 1=8: LET lz=8: LET ht=8 748 LET ts="h": LET tno=1 758 FOR n=USR "a." TO USR "9"+7

760 READ di POKE nidi NEXT n 770 RETURN

780 DATA 255,129,0,0,0,129,129, 255,0,0,0,24,36,255,36,0 706 DATA 0,0,2,7,9,255,9,2,0,0,

32,224,144,255,144,64,112,32,210 ,255,126,255,126,189



790 DATA 16,66,16,6,230,0,20,16 ,149,88,48,231,82,20,74,145 980 BORDER 0: PAPER 0: INK 7 805 OVER 0: CLS

905 OVER 0: CLS 805 OVER 0: CLS 816 PLOT 3,26: DRAW 247,0: DRAW 0.144: DRAW -247,0: DRAW 0,-144 811 LET 99=34: LET 9C=6 812 FOR P=1 TO 6: DLOT 5 0:

812 FOR n=1 TU 6: PLUT 5,99 813 DRRW 243,0: LET 9c=9c-1: LE T 9y=9y+9c: NEXT n

T 99=99+9c: NEXT n 815 FOR n=1 TO 70: INK 2+RND*6: PLOT 10+RND*230,70+RND*90: DRAW RND.0: NEXT n: INK 7

820 LET 90=1 LET 99=54 821 FOR n=5 TO 247: LET 99=99+9 C+INT (RND*3)-1: PLOT n,99: DRAW 0,-(RND*K-99-55) AND 99/54) 822 IF RND<.1 THEN LET 9c=-9c 823 IF 99 61 THEN LET 9c=-1NT (RND*2.5) 924 IF 99<54 THEN LET 9c=INT (

RND*2.5) 826 NEXT n

528 PRINT INK 5:AT 15.1;"(92)" HT 15.30;"(91)" B30 FOR m=0 TO 60 STEP 20 832 IF m=40 THEN NEXT m 834 FOR m=38 TO 51: PLOT 140+m, n: DRRW 20.0:.7: NEXT n: DRRW -2 0.0..7: NEXT m

850 FOR nel TU 5: CIRCLE INK 4 ;23),146 n: NEXT n: UVER 1 \$76 PRINT INK 6;8T us,ux;"a" 880 PRINT AT ts,tx;"b" .005 PRINT AT 19,0; "POWER"; AT 19 ,19; "SCORE"; AT 20,0; "LAZER"; AT 2 0,12; "NO"; AT 20,19; "KILLS" .000 DEEP 1,0; DETUD

890 BEEP 1.9: RETURN 900 BORDER 7: PAPER 7: INK 0 905 OVER 0: CLS

910 PRINT AT 0,4,"- MOON BASE A

915 PRINT '''"You control a laz en station"'"Protecting a moon b ase from"'"the dreaded ZALROCS" 930 PRINT '''"Press am key to continue": PRINS 8: (15

continue": PRUSE 0: CLS
950 PRINT "You use up your limited amount of POWER, firing the laser and moving the tracking sights."

955 PRINT "The base is shielde d by an"""energy field, ""This a lso takes Power to sustainEvery time the base is hit Poweris los

960 PRINT "When your Power is exhausted, the mission ends." 965 PRINT "CONTROLS"""I to m ove left" "P to move right" "Z to move down" "Q to move down". "Q to nove up" "% M or N to fire"

or N to fire"
970 PRINT '"Press any key to co
ntinue"
965 PRUSE 8: RETURN
9999 SRVE "RLPHA": PRINT " VERIF
Y REWIND TAPE": VERIFY ""

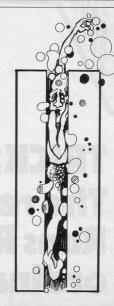
YTTOD

OVE AROUND the maze eating as many dots as possible force the maze closes in on you and you become trapped. You score 10 points for each dot you eat. Use key "Z" to move down, "W" to move up,

"A" to move left and "S" to move right.

Dotty was written for the 1K ZX-81 by Jason Moody of Thornton Heath, Surrey.

- 2 PRINT "(15*isp)"
 3 FUR N=1 TU 14
 4 PRINT "(15*isp)"
 5 NEXT N
 6 PRINT "(15*isp)"
 7 LET D=VRL "2"
 9 LET C=VRL "2"
 10 LET D=VFL "2"
 10 LET D=VFL "2"
 11 LET C=C+(INKEY#="S")-(INKEY#")-(INKEY#")
- 12 PRINT AT C.D. 13 LET A=VAL "PEEK (PEEK 16398 +256*PEEK 16399)" 14 IF A=VAL "128" THEN GOTO VA
- L "19"
 15 IF A=VAL "27" THEN LET S=S+
 VAL "10"
 16 PRINT "(9h)";AT RND#14,RND#
- 16 PRINI "C9N7"H! RNU#14,RND# 14""(15P)";HT RND#14,RND#13;"(2# 15P)";HT 0,20;"SCURE ")S 17 PRINT HT C,D;" " 18 GOTO VAL "10"
 - 18 GUTO VAL "10" 19 PRINT "GAME OVER"



GET THE RIGHT ANGLE ON YOUR SPECTRUM

Trickstick turns your Spectrum into the most sophisticated games machine in the world. Your fingers rest on the Trickstick's six sensitive pads (four directions and two fire buttons) and the harder you press the faster you go or the harder you turn.

Trickstick works by picking up mains hum from your body and converting it by an ingenious circuit design directly into digital input. Proportionality gives vast possibilities for more interesting games.

- * Each Trickstick comes with its own interface included in the price
- Up to eight interfaces can be stacked into each other for 1-8 simultaneous players. (Own 1-8 player game is Attaktics at £10).
- Works with most Kempston compatible software, and with our new programmable adaptor (£10 for Trickstick owners) it works with ANY software.
- * Easy to program, even for proportional games.
- * In the shops soon. Now available by mail/telephone order at £34.50

TRICKSTICKThe revolution that
Runs Rings round
ordinary joysticks

UPCRADE YOUR ISSUE 2 OR 3 SPECTRUM FOR JUST £23 AND GET A £4.50 COPY OF **BEYOND HORIZONS** ABSOLUTELY FREE

The SP48 simply plugs into the sockets provided by Sinclair in your Spectrum. Easy to fit, full instructions provided and no soldering. Fits both Issue 2 and Issue 3 machines (Issue 1 £35) and gives you a standard 48k Spectrum. And no other expansion kit allows you to upgrade later to the 80k Spectrum. Over 20,000 16k Spectrum owners have already upgraded with the SP48 join them

And you get a free copy of BEYOND HORIZONS, so there's yet another angle to look at.

THE 80k SPECTRUM £57.50

Upgrade your 16k Spectrum to a full 80k with the SP80 - a 64k expansion kit giving two 32k pages above address 32767. Not recommended for beginners, but ideal for the serious programmer. Pages are switched using software instructions only, and an LED indicates which page you are on. The other page is isolated from the system, but retains all its information until switched back.

The SP80 simply plugs into the sockets in the 16k Spectrum. Full fitting instructions are provided. It is easy to fit and no soldering is required

See 48/80 FORTH for another angle.

48 80 FORTH - £14.95

The latest, best and most complete version of this popular language for the spectrum FORTH runs many times faster than machine a tonic if you re fed up with all those

Each tape includes both a 48k version and Each tape includes both a 44k version and an 80k version (for use on Spectrums upgraded with 07580 SPAB owners are offered a part-exchange price of £18 if they

ingrade to 800xi
The manual provides both the normal
The manual provides both the inquage, and an
outstanding brief introduction the
beginner Each tape also includes a superp
EDITOR program to give you this a superp
15 (48)x or 52 (80x) disk screens.

A FORTH Toolkit igiving floating point etc. and an extension for the Microdrive will be available shortly, 48, 80 FORTH uses standard FIG-FORTH definitions with extensions to exploit the special characteristics of the Spectrum, including BEEP (for real arcade quality sound), DRAW, PLOT and CIRCLE

BEYOND HORIZONS -- £4.50

This teaching program has already made computing less mysterious for thousands of people. It guides you through the spectrum 48k memory, teaches you to PEEK and POKE systems variables, shows you how the display file and colour attributes work, how a BASIC program is stored byte by byte, and much much more. Outstanding value for those who get stuck on the second half of the spectrum manual

Trickstick £34.50 Attaktics £10.00 SP48 (Issues 2 & 3 £23, Issue 1 £35) _ SP80 £57.50 (Please specify which issue) 48/80 FORTH £14.95 Beyond Horizons £4 50 Programmable Interface £10 (with Trickstick) Postage £0.65 0.65 lenclose cheque/PO for My Access/Visa number is Name Address East London Robotics Ltd **EAST LONDON** Gate 11. Royal Albert Dock. London F16 24 Hour Access and Visa

ordering 01-474 4430



1 BURDER 6: PAPER 6: INK 0: U LS : GO SUB 9000: REM instructio ns

Chesterfield

which you must train on enemy tanks by entering your distance from the tank. Mortar Platoon was written for the 16K Spectrum by C L Baker of

2 PRINT AT 6,8; "MORTAR PLATOO

3 PRINT ""You are in a battle situation armed with an antitank mortar with which you must destroy the lowest enemy tank w hich appears out of the woods at BOTTOM RIGHT'

4 PRINT "To train the mortar ou enter the RANGE (MIN. 200 you enter to MAX. 450 depending on your J udgement of distance to the tan k).

5 PRINT '' "YOU MUST HIT THE T ANK ON THE TURRET OR REAR TO DESTROY"''' "PRESS ANY KEY TO PL

6 PAUSE 0: CLS : IF INKEY#="" THEN GO TO 20

20 LET shots=0: LET hi=0: LET

sc=0: LET b\$="" 30 LET f=INT (RND*18)+10

46 PRINT AT 12,10; INK 4; "(9h: 9h: 9h:9h: 9h:9h:9h:9h:9h:9h)"; AT 13 ,0;" (9h: gh: gh:

" (9h: 9h: 9h:9h)";AT 21,4;"(4*9 h)";AT 21,28;"(9h: 9h: 9h: 9h: 9 h: 9h)

50 PRINT AT 20.0; 1NK 0;"(9a:9

60 IF shots=9 THEN GO TO 300

80 LET shots=shots+;

90 PRINT AT 1,1; PAPER 7; INK 1; "TANK No: "; shots; AT 3,11; "YOUR SCURE=";sc;AT 1,11;"HI-SCURE="; h1;" by ";b#

100 INK 0: PRINT BT 20, f; "(9c:9 110 PRINT INK 0; AT 10, 28; "(9c:

9d)";AT 11,28;"89c:9d)";AT 12,28 : "coc : od >" 128 LET P=48

140 INPUT "RANGE ? (200 TO 450) ";rn9

141 IF rn9>450 THEN PRINT FLA SH 1) INK 0,AT 15,5); "RANGE TOU HIGH FOR MORTAR": PAUSE 100: FLA SH 0: PRINT AT 15,5)" ": GO TO 140

142 IF RNG<200 THEN PRINT FLA SH 1; INK 0;AT 15,0; "RANGE TOU S HURT FUR SAFETY": PAUSE 150: FLA SH 0: PRINT AT 15,0;" ": GO TO 140

160 LET a=rn9*CUS (P1*P/180) 170 LET b=rn9*SIN (PI*P/180) 190 FOR x=0 TO b/16 STEP 190 LET c=.01*(b*x-16*x*x)+1

200 IF a*x>6200 THEN GO TO 270 220 PLOT PAPER 6; INK 2;.04*a* x+12,4*c+8

230 BEEP .005,c+25 240 NEXT ×

250 IF ABS (a*b/3200-f X1 THEN GO TO 280

260 PRINT AT 9,15; INK 0; FLASH 1; "MISSED": BEEP .5,-20 270 PAUSE 150: CLS : CO TO 30

280 PRINT AT 10,10; INK 0; FLAS H 1; "DIRECT HIT": PRINT PAPER 2 INK 0; FLASH 1;AT 20,f;"(9f:99) INN 8) FLHSH 1)HI 20,7) (97/99)
": FOR n=-10 TO 30: BEEP .03,n:
NEXT n: NEXT n: LET sc=sc+1
290 PAUSE 30: CLS : GO TO 30
300 CLS : INK 1

310 IF sc/0 AND hiksc THEN LET hi=sc: CLS : GO TO 350 320 PRINT FLASH 1)AT 5,2)"END OF GAME"; FLASH 0;" ANOTHER GO (Y/N) ?"

330 INPUT as

340 IF a\$="9" THEN LET sc=0: L ET shots=0 CLS : GO TO 30 350 INK 1

360 PRINT AT 5,2; "GOOD - BEST S CORE SO FAR ENTER I S max.7 letters": INPUT bs ENTER INITIAL

370 LET shots=0: LET sc=0: CLS GO TO 30

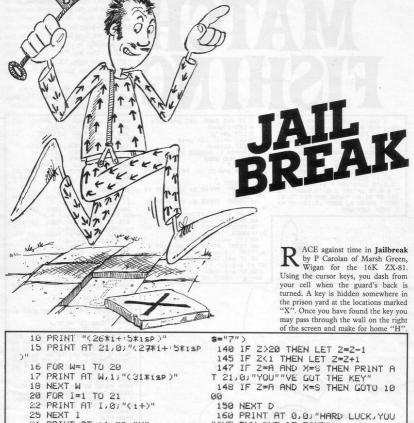
9000 FOR 1=1 TO 8: FOR n=0 TO 7: READ a: POKE USR CHR\$ (1+143)+n a: NEXT n: NEXT 1: RESTORE 9010 9010 DATA 0,0,0,0,3,31,231,255 9020 DATA 3,6,12,24,240,240,28,4

9030 DATA 0,0,63,0,15,31,15,0 9040 DATA 0,8,248,248,252,254,25 2.0

9050 DATA 36,36,36,36,36,36,36,2 55

9060 DATA 56,0,0,32,24,60,255,25

9070 DATA 2,42,32,0,0,15,255,255 9080 DATA 60,60,126,255,219,153, 24.60 9100 RETURN



31 PRINT AT 11,30;"H" ""VE RUN OUT OF TIME" 32 FOR H=0 TO 21 165 STOP 33 PRINT AT H,27; "(1+)" 1000 FOR S=1 TO 100-D 35 NEXT H 1004 PRINT AT 2,X;"""" 50 LET Z=20 1005 PRINT AT 2,X;""" 52 LET X=1 1007 PRINT AT 2, X; "(isp)" 54 FOR T=1 TO 10 1010 LET X=X+(INKEY\$="8")-(INKEY 56 LET A=INT (RND*20+1) 事="5") 58 LET S=INT (RND*26+1) 1020 IF X>31 THEN LET X=X-1 68 PRINT AT A.S. "X" 1030 IF XKO THEN LET X=X+1 69 NEXT T 1040 LET Z=Z+(INKEY#="6")-(INKEY 70 SLOW 事="7") 71 FOR D=1 TO 100 1050 IF Z>21 THEN LET Z=Z-1 1070 IF Z=11 AND X=30 THEN PRINT 72 PRINT AT 2, x; """" 73 PRINT AT 2,X;"""" AT 0.0; "*HOORAY* YOU" "VE DONE 74 PRINT AT Z,X;"(15P)" 1T" 100 LET X=X+(INKEY#="8")-(INKEY 1080 IF Z=11 AND X=30 THEN STUP 事="5") 1090 NEXT S 110 IF X>26 THEN LET X=X-1 2000 PRINT AT 0,0; "HARD LUCK YOU 120 IF X<1 THEN LET X=X+1 ""VE RUN OUT OF TIME" 130 LET Z=Z+(INKEY#="6")-(INKEY 2010 STOP

*F YOU fancy your chances as an angler but the prospect of sitting on a river bank does not appeal, try Match Fishing for the 16K Spectrum.

There are three levels of play and you have a minute to catch as many fish as possible. Use key "Z" to move left, "X" to move right, "K" to move down. When the game has ended the angler walks away.

Match Fishing was written for the 16K Spectrum by Nicholas Marshall, aged 13, of Hull, North Humberside.

1 INK 7: BORDER 2: PAPER 1: IF 9=3 THEN LET w=4 CLS FOR t=1 TO 30: BEEP .01.t LET fish=0 5 LET as="d" 6 LET c=16 L 7 LET time=0 NEXT t: FOR t=30 TO 1 STEP -1: B EEP .01,t: NEXT t: PRINT "1-EASY
": PRINT : PRINT "2-MEDIUM": PRI
NT : PRINT "3-HARD": PRINT FLAS LET d≈10 10 PAPER 1: BORDER 2: CLS H 1; AT 12,0; "MATCH FISHING" : INP 13 GD SUB 2000 H 1;AT 12.0; "MATCH FISHING": INP UT 4: IF 4=1 THEN LET w=7 2 CLS: FOR t=-10 TU 50: BEEP 01.t. NEXT t: PRINT "KEYS";AT 2.0;"Z left";AT 4.0;"X right";A T 5.0;"K w=";AT 9.0;"M doum"; INT AT 21,0;"PRESS ANY KEY TU ST 15 INK 7 20 FOR a=0 TO 10: PRINT PAPER 5," " NEXT 30 PRINT PAPER 5; INK 0;AT 10 40 PRINT PAPER 5; INK 0:AT 9; PRUSE 0: BEEP .5,10: IF 9= 41"4" THEN LET W=5 50 LET 4=15 LET b=15 60 PRINT AT 1,6145 70 PRINT PAPER 5, INK 0,AT 0, 3,"FISHES ",fish 80 LET s=INT (RND*\omega)+1
85 PRINT PAPER 5; INK 0;AT 2;
0;"TIME ";time: LET time=time+1 90 IF s=1 THEN LET a=a+1 PRI NT AT a-1,b)" "

100 IF s=2 THEN LET a=a-1: LET
as="d": PRINT AT a+1,b)" "

110 IF s=3 THEN LET b=b+1: LET s=="e": PRINT AT a.b-1;" "
120 IF s=4 THEN LET b=b-1: PRI NT AT a b+1;" 130 IF a>21 THEN LET a=21 140 IF a<11 THEN LET a=11 150 IF b>31 THEN LET b=31 160 IF 60 THEN LET 6-0 170 PRINT PAPER 1, INK 4, AT 21 .0," ff f fff 180 PRINT AT c,d;"9"
190 IF INKEY = "z" THEN LET d=d PRINT AT c.d+1;" 200 IF INKEY = "x" THEN +1: PRINT AT c.d-1;" 210 IF INKEYS= ""
+1' PRINT BT C-1,d;" "
+1' PRINT BT C-1,d;" "
HEN LET C-C 220 IF INKEYS="k" THEN LET c=c
-1 PRINT AT c+1.04" "
230 IF c>21 THEN LET c=21
240 IF c>21 THEN LET c=21
250 IF d>31 THEN LET d=31
250 IF d>31 THEN LET d=3
270 IF c=a AND d=b THEN LET F1
344 IF c>1 DEEP .5.30 280 IF time=200 THEN GO TO 100 999 GO TO 60 1000 FOR e=11 TO 21 1010 PRINT PAPER 5, INK 0,8T e, 0) "1111h " PAUSE 10 NEXT e 1015 INK 0: PAPER 5: FOR P=4 TO 1813 INN 0 PHYER S 7 UR PS 4 UR S 5 TEP - 1 PRINT AT 8,P;"1" PRI NT AT 9,P;"5 FUR ME! TO 20 NE XT M: PRINT AT 8,P;"4" PRINT AT 9,P;"4" FUR ME! TO 20 NEXT M: PRINT AT 8,P;"5 P

9,0)" ": INK / 1017 PAPER 0 1020 PRUSE 50: CLS : PRINT "YOU CRUGHT ";fish;" FISHES": PRINT A T 18,0;"PRESS ANY KEY FUR ANOTHE

9,0)" ": INK 7

R FISH" : PAUSE Ø 1998 RUN

.65.65

2050 DATA "d",0,8IN 00111001,8IN 01011111,255,BIN 01111111,BIN 0 0111001,0,0 2060 DATA "e",0,BIN 10011100,BIN

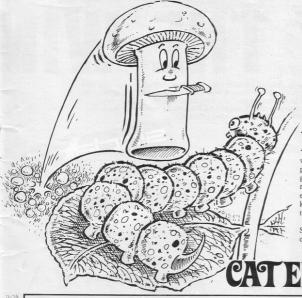
11111010,255,254,BIN 10011100,0 2065 DATA "f", BIN 00100010, BIN 0

0010100,BIN 00101001,BIN 0011001 8,8IN 01001010,BIN 00101001,BIN 00011010,BIN 00011100 2067 DATA "9",32,32,32,32,34,38,

18,12 2068 DATR "h",65,65,65,65,65,65 65,65

2069 DATA "1",8,8,8,8,8,8,8,8,8 2070 DATA "J",56,56,56,16,56,120 120,184 2080 DATA "k",56,56,40,40,72,68,

68,BIN 11001100 2085 DATA "1",7,7,7,2,7,7,7,7 2090 DATA "m",7,7,2,2,6,2,3,6 2100 RETURN



N YOUR CAPACITY as chief mushroom it is your task to protect the smaller mushrooms from an invading Caterpillar. Fire at the caterpillar as it advances towards you and guarantee the safety of the other mushrooms. If the caterpillar succeeds in eating a mushroom the game ends. Use key 5 to move left, 8 to move right and 0

Caterpillar was written for the 16K Spectrum by Stuart Edwards, aged 12, of Brighton, East Sussex.

GU SUB 9100: GU SUB 7000 PAPER 5: BURDER 2: C LET a=0: LET b=INT (RND#31) LET mm12 PRINT AT 20, m; 4 PRINT AT 20, m; "a"
1NK 4: PRINT AT 21, 0; "dddd PRINT AT 0.0; "SCORE=")s IF INKEY#="5" THEN GO TO 20 100 30 IF INKEYS="8" THEN GO TO 200 40 IF INKEYS="0" THEN GO TO 50 IF INKEYS="" THEN BEEP .0 05,-5 GO TO 1000 -1: IF m=0 THEN LET m=30 100 PRINT AT 20, m)" ": LET m=m INK 1 PRINT AT 20, m; "a" GU TU 1000 200 PRINT AT 20, m; " " LET mam +1: IF m=31 THEN LET m=1 201 INK 1: PRINT AT 20,m;"a" GO TO 1888 300 PLUT mx8+4,16: INK 3: DRAW 0,159: PAUSE 20: INK 5: PLOT m* 3+4,16: DRAW 0,155: IF m=b THEN 8+4,16: DRAW 0,155: LET a=0: LET b=5: PRINT AT a,b; LET s=s+5: FOR 9=49 TO 56 BEEP .001,4: NEXT 4: GO TO 2 301 IF s>=h THEN BEEP .01,1 PRINT AT 20,0;s: LET h=h+100: LE T s=s+5: PAUSE 50: CU TU 9000 302 GO TO 1000 1000 BEEP .01.a LET o=INT (RND X(3) 1919 IF 0=0 THEN GO TO 1500 IF 0=1 THEN GO TO 2000 1929 IF o=2 THEN 1030 GO TO 2500 1040 GO TO 1000 1500 INK 1: PRINT AT a,b,"c": L ET a=a+1: IF a=20 THEN GO TO 80 99 1501 INK 2: PRINT AT a.b."b" : G 0 TO 10 2000 1NK 2: PRINT AT a,b,"c": L ET b=b-1: IF b=0 THEN LET b=30 9111 POKE USR "b"+1,BIN 0100001 ø INK 2: PRINT AT a,b,"b" G 9:12 POKE USR "b"+2,BIN 0100001 O TO 10

306

307

308

ET b=b+1: IF b=31 THEN LET b=1 INK 2: PRINT AT a, b; "b" : G O TO 10 7000 BEEP .1,-2' BEEP .1,+2' PR INT AT 12,0, 1NK 2, FLASH 1,"STO P THE TAPE": IF INKEY = "THEN GO TO 7000 7010 CLS PRINT AT 1,10, INK 2 FLASH 1; "CaTeRPILLA" 7020 PRINT AT 4,2, "USE KEYS 5&8 AND Ø TO FIRE" 7021 PRINT AT 12,0; INK 2;"CCC TORE PRINT AT 13,0) INK 4; C SCC CCG CCC CCC CCC"

7025 PRUSE 20

7030 PRINT RT 20,0; "PrEss RnY K
eY To StArT The GaMe"

7040 IF INKEY®="" THEN GU TO 7 040 7099 RETURN 8000 CLS : LET s=0: PRINT AT 12 ,2; INK 0; "ThE CaTeRPILLa' AtE Y 8000 oUn MushRoOm, Another C 0 Y/N?" 8001 INPUT INKEYS 8002 IF INKEYS="y" THEN GO TO gaas. IF INKEY=="n" THEN NEW GO TO 8001 PUKE USR "a", BIN 00011000 8004 9100 9101 PUKE USR "&"+1,BIN 0011110 9102 PUKE USR "a"+2, BIN 0111111 9103 PUKE USR "a"+3,BIN 0111111 POKE USR "a"+4,BIN 0001100 9104 9185 POKE USR "a"+5, BIN 0001100 9106 POKE USR "a"+6,BIN 0001100 9107 POKE USR "a"+7,BIN 0001100 9110 POKE USR "b", BIN 10111101

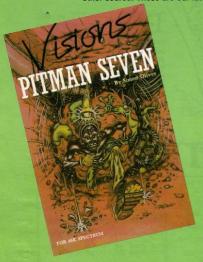
9113. POKE USR "b"+3.BIN 0101101 9114 POKE USR "b"+4,BIN 0111111 9115 PUKE USR "6"+5,BIN 0111111 POKE USR "b"+6,BIN 0110011 9116 9117 PUKE USR "b"+7,BIN 0110011 9120 POKE USR "c", BIN 00111100 9121 POKE USR "c"+1, BIN 0111111 a 9122 POKE USR "c"+2.BIN 1111111 POKE USR "c"+3, BIN 1111111 9124 POKE USR "c"+4, BIN 1111111 9125 POKE USR "c"+5,BIN 1111111 9126 POKE USR "c"+6,BIN 0111111 9127 POKE USR "c"+7, BIN 0001111 000 PUKE USR "d",BIN 00110111 PUKE USR "d"+1,BIN 1111111 9130 9131 9132 POKE USR "d"+2,BIN 1111111 9133 POKE USR "d"+3, BIN 1111111 9134 PUKE USR "d"+4,BIN 1111111 9135 POKE USR "a"+5,BIN 1111111 9136 POKE USR "d"+6, BIN 1111111 9137 POKE USR "d"+7, BIN 1111111 9138 RETURN SAVE "CaTa" LINE 9950: SAV 9900 E "C"CODE 30000,2767 9916 PRINT "VERIFY"
VERIFY "CaTa": VERIFY "C"C 9920 UDE 30000,2767 9930 STOP 9950 CLEAR 29999: LOAD "C"CODE 30000,2767 9960 RUN

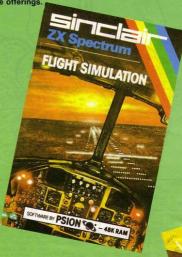
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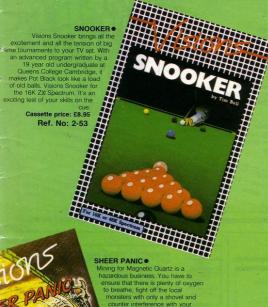
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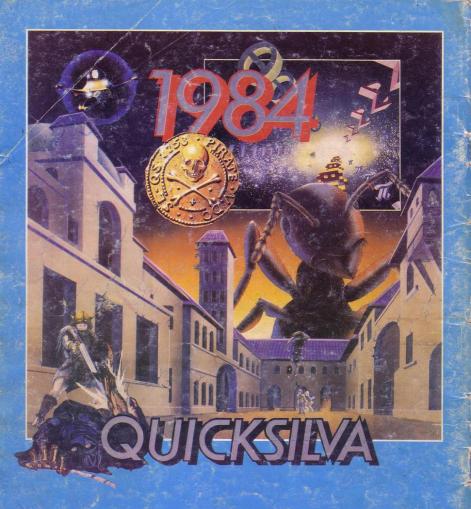
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