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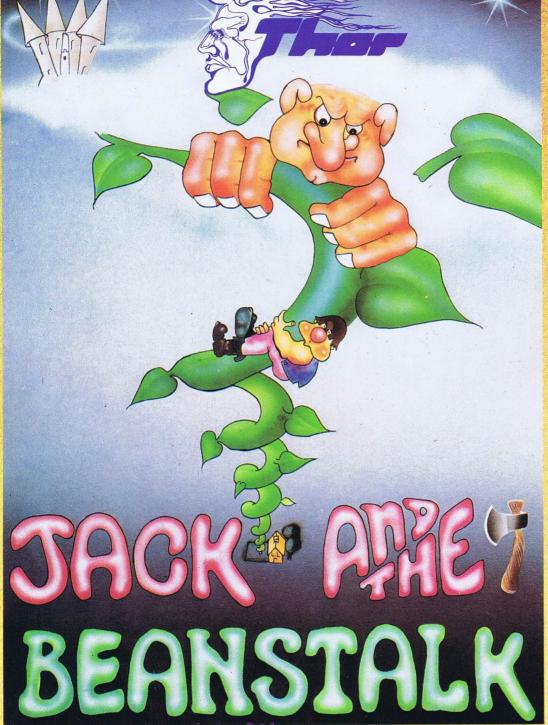






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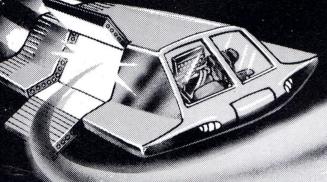
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OCTOBER19

PROGRAMS TO PLAY

..... CBM6422 Missile Silo..... Shoot 'em down quick, before they get you.

..... Atari **34** The Ruins A haunting adventure to type in and play.

......CBM38 Let's hope you do better than the England game in this test match.

FREE POSTER

..... Atari 45 Helicopter Pilot.... Man the controls of this chopper in a testing game of

Alien Intruders.....BBC 6 2 More aliens galore, you just can't keep a good alien down!

.. Atmos/Oric 74 Tin town tinkering with Nick 'el Alloy, Rusty Bolt and their friends and enemies.

...... Spectrum **82** Sub Hunt. . . Dive into the depths in this great submarine simulation

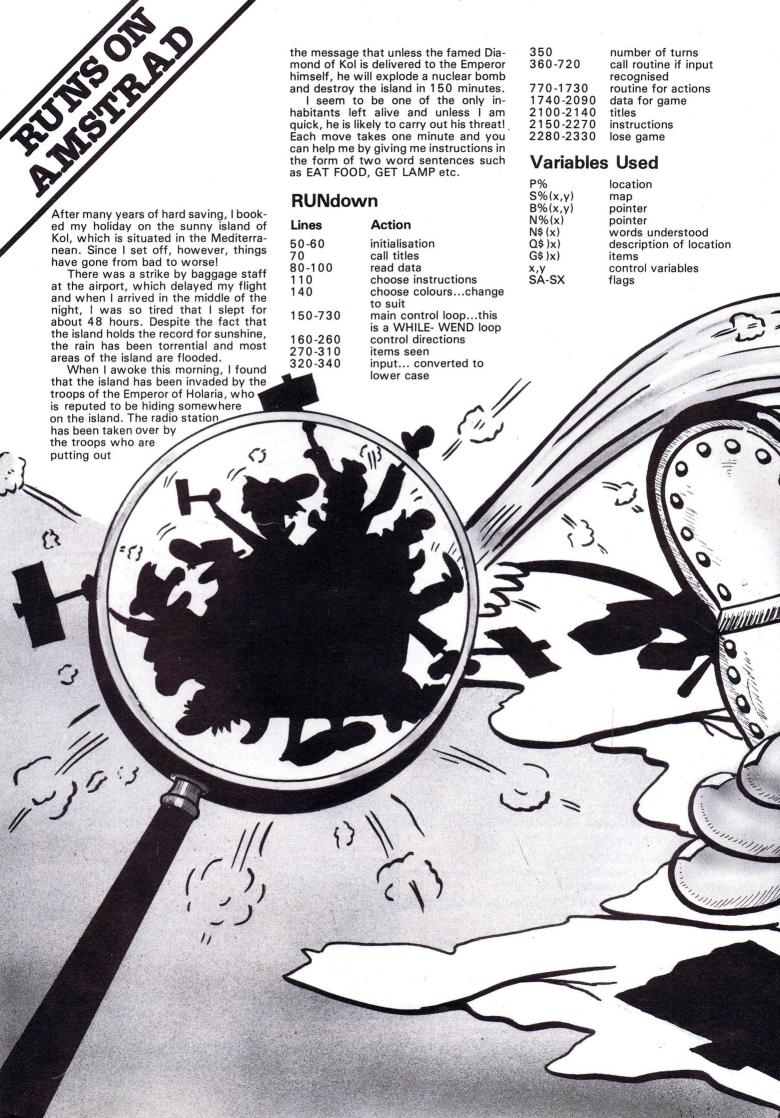
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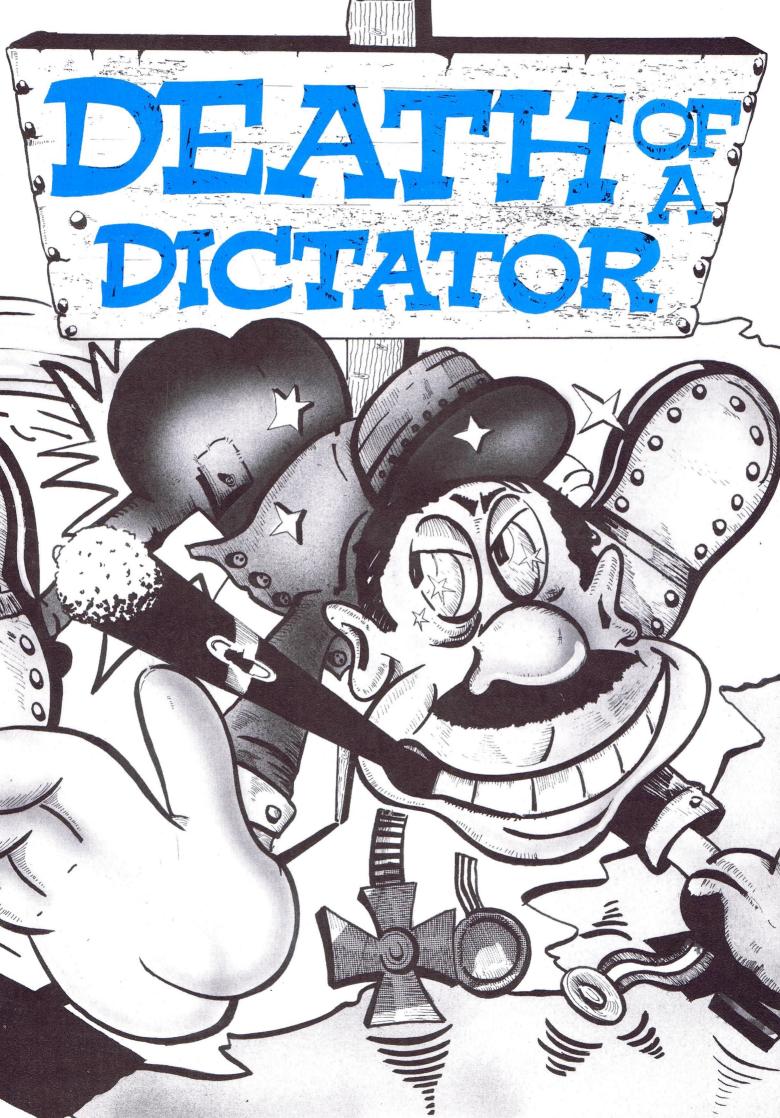
TEXAS PROGRAM

On the front cover of this issue of Games Computing it refers to a program for the Texas. Unfortunately we were unable to run that program after all but could not alter the front cover. Sorry TI owners — we hope you're not too disappointed, and we'll do our best to carry a Texas program next month.



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Conversion Clues

- 1. The main control loop of this program is the WHILE WEND loop from line 150-730. This could be replaced by a REPEAT UNTIL loop or a conditional GOTO.
- LOCATE... can be replaced with PRINT @ or PRINT TAB(x,y) as appropriate to your machine
- PAPER, INK, PEN are used to select colour... you could use PRINT CHR\$(x) or whatever method applied to your machine.

program was written in MODE 1, which allows just 4 colours to be displayed in 40 column screen. The colours selected give a good display if you have a colour monitor. You may wish to change these if using the green screen using the INK statements in line 60

- LOWER\$... converts string to lower case.
- UPPER\$...converts string to upper case.
- The Amstrad interprets lower case and upper case as the same thing, so that you can type the program in lower case or upper case! Note that you MUST leave spaces after BASIC key-words, as otherwise they may be interpreted as part of a variable name!

```
10 REM ** Death of a Dictator **
                                                                                                480 IF c$="rea" THEN PRINT"I can't see anything to read
20 REM ** an adventure game for theAmstrad CPC 464**
30 REM ** Steve Lucas July 1984 **
                                                                                                     Goto120
                                                                                                490 IF b$="n" OR b$="s" OR b$="e" OR b$="w" THEN PRINT"
 40 REM to prevent escaping from program change this lin
                                                                                               e to ON BREAK GOSUB 62000 and add RUN in line 62000 50 G%-0:P%-54:DIM S%(103,4),X$(35),N%(70),Q$(103),G$(60
                                                                                               OTO 150
0.7-6.7 A-34:DIN 3.7:DIN 3.7:A-3.3.7, N.7.(70), U# (10), V$ (4), B.X.(103,1), N$ (101)
60 MODE 1: INK 0,1: INK 1,24: INK 2,20: INK 3,6
                                                                                               510 IF b$="fu" OR b$="pi" THEN PRINT x$(22): GOTO 150
520 IF c$="bug" THEN PRINT x$(23): GOTO 150
530 IF c$="inv" THEN 1480
70 GOSUB 2100
80 RESTORE: FOR X=1 TO 103: READ Q$(X): FOR Y=1 TO 4: R
EAD S%(X,Y): NEXT Y:NEXT X
90 FOR X=1 TO 35: READ X$(X): NEXT X: FOR X=1 TO 20 :RE
                                                                                               540 IF c$="row" OR c$="sai" OR c$="pad" OR z$="go dingh
                                                                                                    THEN 1620
                                                                                               550 IF c$="up" OR c$="cli" OR z$="go up" THEN 770
560 IF c$="dow" OR z$="go down" THEN 830
570 IF c$="out" OR z$="go out" THEN 880
AD G$(X),B%(X,1): NEXT
100 FOR X=1 TO 27: READ N$(X),N%(X): NEXT
 110 LOCATE 5,20: PRINT"Do you want instructions <Y/N> ?
                                                                                               580 IF b$="in" OR z$="go in" THEN 920
590 IF z$="go bus" OR z$="go ride" OR c$="rid" THEN 950
600 IF c$="wai" THEN PRINT x$(27): FOR x=1 TO 1000: NEX
120 aa$=INKEY$: IF aa$="" THEN 120
130 IF aa$="y" OR aa$="Y" THEN GOSUB 2150
140 MODE 1: PAPER 0: PEN 1:BORDER 3
                                                                                                T x: g%=g%+1: GOTO 150
                                                                                               610 IF c$="jum" THEN 980
620 IF c$="div" THEN 1000
       WHILE 1%<147
                                                                                               620 IF c$="get" OR c$="tak" OR c$="gra" THEN 1030
640 IF c$="dro" OR c$="lea" OR c$="put" THEN 1350
650 IF c$="ope" AND P%=64 THEN PRINT X$(26): GOTO 150
160 PRINT:PAPER 1: PEN 0: PRINT" I am :-":PRINT:PAPER 0: PEN 2: PRINT Q$(P%): a$="":gh=FRE("")
170 IF S%(P%,1)>0 THEN a$="North"
                                                                                               180 IF S%(P%,2)>0 AND LEN(a$)=0 THEN a$="South" ELSE IF
  5%(P%,2)>0 THEN a$=a$+",South"
190 IF 5%(P%,3)>0 AND LEN(a$)=0 THEN a$="East" ELSE IF 5%(P%,3)>0 THEN a$=a$+",East"
                                                                                               680 IF c$="g.v" THEN 1650
                                                                                               690 IF c$="exa" THEN PRINT"I see nothing special or unu
                                                                                               690 IF C$="exa" IMEN PRINITI see nothing special or and sual!": GOTO 150
700 IF c$="swi" THEN PRINT"Just give me a direction and I'll swim if I have to !": GOTO 150
710 IF c$="kil" OR c$="sho" OR c$="des" THEN 1680
720 IF c$="sea" THEN PRINT"I see nothing here": GOTO 15
 200 IF S%(P%,4)>0 AND LEN(a$)=0 THEN a$="West" ELSE IF
200 IF S%.(P%,4)>0 AND LEN(a$)=0 THEN a$="West" ELSE IF S%.(P%,4)>0 THEN a$=a$+",West"
210 IF a$=\text{" THEN a$=\text{"nowhere obvious"}}
220 IF P%=103 AND aa=1 THEN CLS: GOTO 740: REM win game
230 IF g%:149 THEN x$=\text{"You ran out of time and He blew the island up \text{\text{": GOTO 2280}}
240 PRINT:PRINT: PAPER 1: PEN 3: PRINT"I can go :-\text{\text{":PRINT:PAPER 0: PEN 1:PRINT a$}
                                                                                               730 PRINT x$(5):
                                                                                                                            WEND
                                                                                                740 CLS: PRINT: PAPER 2: PRINT"
                                                                                                                                                               Well Done
 250 PRINT: PAPER 2: PEN 0: PRINT"I have ";150-g%; " moves
                                                                                                ": PAPER 1
left": PAPER 0: PEN 2
260 e=0:FOR x=1 TO 20
                                                                                               752 RINT:PRINT:PRINT:PRINT"
                                                                                                                                                     You have solved this a
                                                                                               dventure.
270 pp%=0: IF B%(x,1)=P% THEN pp%=1
280 IF pp%=1 THEN 300
                                                                                               760 END
                                                                                               770 IF P%=29 THEN PRINT X$(7):P%=30: GOTO 150
780 IF P%=100 THEN PRINT X$(7): P%=101: GOTO 150
790 IF P%=13 THEN PRINT"I keep slipping back !": GOTO 1
 290 NEXT: GOTO 320
300 IF e=0 THEN PRINT: PAPER 1: PEN 3: PRINT"I can see :-": PAPER 0 : PEN 1
                                                                                               50
 310 PRINT G$(x): e=e+1: GOTO 290
                                                                                               800 IF P%=60 THEN PRINT X$(7): GOTO 150
810 IF P%=41 THEN PRINT X$(7): GOTO 150
320 PRINT:PRINT:INPUT"What should I do now ";z$
330 z$=LOWER$(z$)
                                                                                               820 PRINT"I can't do that here !": GOTO 150
340 b$=LEFT$(z$,2): c$=LEFT$(z$,3)
                                                                                               830 IF P%=30 THEN PRINT X$(8):P%=29: GOTO 150
840 IF P%=40 THEN P%=41: PRINT X$(8): GOTO 150
850 IF P%=101 THEN PRINT X$(8): P%=100: GOTO 150
 350 CLS: g%=g%+1
360 IF c$="loo"THEN 150
370 IF c$="sco" THEN PRINT"This isn't a game you know!"
                                                                                                     IF P%=61 THEN PRINT X$(8): P%=60: GOTO 150
                                                                                               860
: GOTO 150
                                                                                               870 GOTO 820
                                                                                               880 IF P%=74 THEN PRINT X$(27):P%=73: GOTO 150
890 IF P%=28 THEN P%=27: PRINT X$(27): GOTO 150
900 PRINT"How can I do that here ?": GOTO 150
910 PRINT"Now who's a SILLY BILLY then ?": GOTO 150
920 IF P%=27 THEN P%=28: PRINT X$(27): GOTO 150
 380 IF c$="eat" THEN PRINT x$(9): GOTO 150
 390 IF c$="rub" THEN PRINT x$(12): GOTO 150
400 IF c$="hel" THEN PRINT x$(12): GOTO 150
410 IF c$="dri" THEN PRINT" I don't see any
                                              I don't see anything here I
'd like to drink!":GOTO 150
420 IF c$="say" OR c$="spe" The
                                              THEN PRINT x$(4): GOTO 150
                                                                                               930 IF P%=73 THEN P%=74: PRINT X$(27): GOTO 150
940 PRINT"I can't do that here!": GOTO 150
430 IF c$="pra" THEN PRINT x$(18): PRINT"Nothing happen
s!": GOTO 150
                                                                                               950 IF P%=26 THEN PRINT"There's not a bus in sight that
 440 IF b$="n"
                      AND S%(P%,1)<>0 THEN P%=S%(P%,1): PRINT x
                                                                                                              running!": GOTO 150
$(27): GOTO 150
450 IF b$="s" AND S%(P%,2)<>0 THEN P%=S%(P%,2): PRINT x
                                                                                               960 IF P%=38 THEN PRINT X$(27): PRINT"I get off at the next stop": P%=26: GOTO 150
$(27): GOTO 150
                                                                                               970 PRINT"Don't be absurd !": GOTO 150
 460 IF b$="e" AND S%(P%,3)<>0 THEN P%=S%(P%,3): PRINT x
                                                                                               980 IF P%=90 THEN PRINT X$(27): P%=89 : GOTO 150
$(27): GOTO 150
470 IF b$="w" AND S%(P%,4)<>0 THEN P%=S%(P%,4):PRINT x$
                                                                                               990 IF P%=89 THEN P%=90:PRINT"Phew just made it!": GOTO
```

150

(27): GOTO 150

1000 IF P%=63 OR P%=59 THEN PRINT"SPLASH!": P%=15: GOTO

1010 PRINT"Now who's a SILLY BILLY then ?": GOTO 150 1020 IF se=1 THEN PRINT x\$(25): GOTO 150 1030 GOSUB 1260 1040 IF 1%=1 THEN 1060 1050 GOTO 150 1060 e%=0 1070 FOR x=1 TO 20: IF B%(x,1)=P% AND B%(N%(r),1)=P% TH FN e%=1 1080 NEXT x 1090 IF e%=0 THEN 150 1100 IF P%=103 AND (r=1 OR r=2) THEN PRINT x\$(19):GOTO 150 1110 IF r=8 THEN sa=1 1120 IF r=18 THEN sb=1 1130 IF r=26 THEN sc=1 1140 IF r=25 THEN sb=1 1150 IF P%=64 AND r=7 AND se<>1 THEN PRINT x\$(3): GOTO 1160 IF P%=64 AND r=23 AND se<>1 THEN PRINT"I can't see it here!": GOTO 150 1170 IF P%=36 AND r=27 THEN PRINT"What sort of person d o you take me for ?": GOTO 150 1180 IF P%=98 AND r=24 THEN PRINT"It's stuck!": GOTO 15 1190 IF r=23 THEN ss=1 1200 IF r=15 AND P%=23 THEN PRINT x\$(11):GOTO 150 1210 e%=0 1220 FOR x=1 TO 3: IF V*(x)="" THEN V*(x)=G*(N%(r)): e%=1: x=7 1230 NEXT 1240 IF e%=0 THEN PRINT"my hands are full!":GOTO 150
1250 B%(N%(r),1)=0: GOTO 150
1260 1\$="": FOR x=1 TO LEN(z\$)
1270 IF MID\$(z\$,x,1)=" " THEN 1\$=RIGHT\$(z\$,(LEN(z\$)-x)) x=x+40 1280 NEXT x 1290 r=0: 1%=0: IF LEN(1\$)<2 THEN RETURN 1300 FOR x=1 TO 27 1310 N\$(x)=LOWER\$(N\$(x)) 1320 IF LEFT\$(N\$(x),LEN(1\$))=1\$ THEN 1%=1: r=x 1330 NEXT 1340 RETURN 1350 GOSUB 1260 1360 IF 1%=1 THEN 1380 1370 PRINT"I can't see a ":1\$ 1380 e%=0 1390 FOR x=1 TO 3: IF V\$(x)=G\$(N%(r)) THEN V\$(x)="": e% 1400 NEXT × 1410 IF e%=1 THEN 1430 1420 PRINT"I don't have it !":60TO 150 1430 B%(N%(r),1)=P% 1440 CLS 1450 IF r=26 THEN sc=0 ELSE IF r=25 THEN sb=0 ELSE IF r =8 THEN sa=0 ELSE IF r=7 THEN sd=0

A No No Oliv 1460 IF r=22 THEN ss=0 1470 GOTO 150 1480 PRINT"I am carrying :-" 1490 f%=Ø 1500 FOR x=1 TO 3 1510 IF V\$(x)<>"" THEN PRINT V\$(x): f%=1 1520 NEXT 1530 IF f%=0 THEN PRINT"Not a thing!" 1540 GOTO 150 1550 IF p%=64 OR p%=35 THEN 1570 1560 PRINT"Don't be silly !": GOTO 150 1570 IF P%=64 AND sa<>1 THEN PRINT x\$(15): GOTO 150 1580 IF p%=35 THEN PRINT"The padlock is too rusty to un lock with this key!": GOTO 150 1590 IF se=0 THEN 1600 ELSE PRINT x\$(25): GOTO 150 1600 se=1: PRINT x\$(29):PRINT x\$(30): g\$(16)="The DIAMO ND": GOTO 150 1610 IF p%<>36 THEN PRINT"I can't do that here": GOTO 1 50 ELSE PRINT X\$(27): PRINT"She smiles for a second": G OTO 150 1620 IF p%=53 OR p%=52 THEN 1630 ELSE PRINT"I can't do that here!": GOTO 150 1630 IF p%=52 THEN PRINT x\$(27):PRINT"I sail the boat": P%=53: B%(6,1)=53: GOTO 150 1640 PRINT x\$(27): PRINT"I paddle the dinghy": P%=52: B %(6,1)=52: GOTO 150 1650 IF p%<>103 THEN PRINT"I can't give the diamond to the Emperor HERE !": GOTO 150 1660 IF ss<>1 THEN x\$="He notices that I don't have the DIAMOND and kills me with his sword!": GOTO 2280 DIAMOND and kills me with his sword!": GOTO 2280 1670 CLS: GOTO 740 1680 IF p%=23 THEN PRINT"Don't be so cruel!": GOTO 150 1690 IF P%=36 THEN PRINT"What do you take me for ...a S ADIST ?": GOTO 150 1700 IF p%<>103 THEN PRINT"Not here!": GOTO 150 1710 IF sb<>1 THEN PRINT"I have no weapon !": GOTO 150 1720 IF sc<>1 THEN PRINT"I pull out the gun.but there bullet !": x\$="I don't think He liked that": s no GOTO 2280 1730 PRINT"I quickly load the gun and kill the ROR":FOR x= 1 TO 2000: NEXT x: GOTO 740 EMPE 1740 DATA in the main shopping street, 22, 2, 23, 27, in a c



DEATHG

overed market,1,3,0,0,by a street stall. It's empty,2,4,8,7,outside the public library,3,5,0,6,in the civic ce ntre, 4, 16, 12, 0, by the checkout desk of the library, 0, 0, 4.86

1750 DATA in a small chemist's shop. The shelves are empty, 0, 0, 3, 0, on a main road. There's not a car in si aht.0.0.9.3

1760 DATA on the main road, 0, 0, 10, 8, by some traffic lig hts which seem to be out of order, 26,0,11,9,by a workman's hut. There's a deep hole here

1770 DATA 0,0,0,10, at the entrance to a swimming pool,0 ,0,0,5,at the bottom of a muddy hole. I keep in the mud!,0,0,0,0

1780 DATA at the shallow end of a swimming pool, 12,0,0, 0, swimming in deep water, 0,58,0,0, in the village square It's full of cafe's

1790 DATA 5,0,0,17, outside the Hotel Colrosa,0,21,16,18 ,walking along a narrow footpath with woods on eithe side,0,0,17,19,deep in the forest. There's a tall tre ,0,0,18,0

1800 DATA at the top of a tree, 0,0,0,0,in the hotel ent rance, 17, 64, 0, 0

1810 DATA outside an amusement arcade, 73,1,24,0, inside an amusement arcade. All the machines have been tur ned off,24,0,0,1,in a dirty alleyway,0,23,25,22

1820 DATA on the top of a low wall,0,0,0,24,at a bus st op,0,10,0,0,outside Woolworth's

1830 DATA 0,0,1,0, in the gardening section. The entrance is nearby,0,0,0,29,at the bottom of a staircase,0,34,28,0,at the top of the stairs,0,0,31,0,in the electric department,0,32,33,30

1840 DATA in the staff canteen,31,0,0,0,0,by a display of computers,0,0,0,31,at the checkout,29,0,0,0,in a loadi ng bay, 0.0, 36.0. in a narrow tunnel. 0.37.0.35. at the end of the tunnel, 36,0,38,0

1850 DATA at a bus terminus. There are plenty of here, 39, 0, 0, 37, on the edge of town, 0, 38, 40, 0, 4 some traffic lights. There's an open manhole in the ground, 42, 0, 0, 39, in a sewer. It's full of rats and ####, 0, 0, 0, 01860 DATA on a main road. The river has burst its banks .45,40,0,43,paddling waist deep in muddy water,44,0,42,0,outside the National Bank of Holoria. It is flooded,5 0,43,45,46,by deep flood water. I can see only the North, 0, 42, 0, 44

1870 DATA in the bank entrance. It's flooded,49,47,44,4 8, at the counter. There's no-one serving!,46,0,0,0,in the main hall of the bank,0,0,46,0,in the manager's offi ce. The water is very deep here.,0,46,0,0,outside a cin ema,52,44,51,0

1880 DATA inside the cinema entrance. It's closed!,0,0, 0,50,in the middle of the road. I can't go use of the floods,0,50,0,0,by the roof of a large flood ed warehouse,55,0,0,54

1890 DATA on a large plank of wood floating on the wate r,0,0,53,0,on the roof of a building,0,53,56,0,by a tal l chimney,0,57,0,55,at the other side of the roof. The flood stretches for miles,56,0,0,0,on the steps at the

side of the pool,15,0,59,0 1900 DATA at the side of the pool,0,60,0,58,at the bott om of some steps,59,0,0,0,on a balcony looking out over the floods,0,0,62,0,on a diving board,63,0,0,61,at the end of the board,0,63,0,0

1910 DATA by a reception desk. A sullen looking frowns at me,21,65,0,0,in a large hall full of tables,6 4,0,66,0, at the end of the hall. People are dining,0,67 0.65

1920 DATA at the end of a long bar, 66,0,68,0, at the far end of the bar. The barman is asleep,0,69,0,67,in a lo unge,68,71,70,72,in a toilet,0,0,0,69,in a lounge. All the tables have been pushed to one side,69.0.0.0

1930 DATA in an alcove, 0, 0, 69, 0, at the entrance to the Royal Holdavian Ice Caverns',0,22,0,0,in a vast gloomy cavern. Water drips down the walls,75,0,0,0,at the end of the gloomy cavern. A dead body lies on the floor ,85,74,76,80

1940 DATA in a wide passage lit by torches in the wall, 0,77,0,75,in a twisty passage,76,0,78,0,in a winding passage,79,0,0,77,in a small chamber,88,78,0,0,by a subte rranian waterfall,84,81,75,82

1950 DATA on a narrow ledge at the side of the fall,80,83,0,0,paddling in the water. It's too deep to go further,0,0,80,0,at a dead end,81,0,0,0,in a narrow passage which is blocked to the north by a large boulde r of ice,0,80,0,0

1960 DATA in a cavern of solid ice,0,75,0,0,in the reference section. A book lies open ON a page showing some 'Ice Caves',0,0,6,87,in the reading room. A sign read 'SILENCE',0,0,86,0,at the end of a gloomy passage,89, 79.0.0

1970 DATA in a small chamber. There's a narrow ravine to the north.,0,88,0,0,0n a narrow ledge. There's a r avine to the South and I can just make out a passa ge,91,0,0,0,in a passage deep inside the mountain,0,90, 93,92

1980 DATA in a small cavern where passages lead n all directions, 97, 96, 91, 0, in a tunnel lined with stra nge carvings, 94, 95, 0, 91, in a vast underground chamber, 0 ,93,0,0,in a cavern where the stalagtites are 5,93,0,0,0

1990 DATA in a small office. It seems strange to an office here!,92,0,0,0,in a man made corridor. The w lined with plastic.,0,92,0,98,in a wide pass alls are east,0,99,97,0 age which bends to the

2000 DATA in a glass corridor lit with fluorescent tube s,98,100,0,0,by a sheer wall of ice. A thick rope ha ngs down from above, 99,0,0,0, in a small room chamber. T here's a sheer drop here. A rope hangs over the edge. I 's fastened to a metal ring

2010 DATA 0,0,102,0,in a wide passage,0,103,0,101,in th e hall of the 'Mad Emperor of Holuria'. He is here !!!!,102,0,0,0 2020 DATA "

2030 DATA that's far too dangerous, It's far to heavy to lift, I'm sorry I don't speak the language, I'm sorry I don't seem to understand you!, It's stuck, I climb up, I climb down, I'm not hungry thank you

2040 DATA Sorry. That word is not in my vocabulary, AAAG

2040 DATA Sorry. That word is not in my vocabulary, AAAG GGGHHHH it got me!, What a stupid suggestion!, I already know that dummy!, I'm nearly there, I don't have the key, Sorry. I don't have a clue, Time is running out 2050 DATA I'll try it if you like, I wouldn't recommend it!, How ugly it looks!, Not Bloomin' Likely!, How dare you speak to me like that!, Don't be so rude!, It said you are a stupid ######, It's already open dummy!
2060 DATA It's locked!, O.K., something happened!, I see something there, It gleams brightly, What fun, That's far too dangerous here!, It's too hard, I've nothing to do that with, I'd need a shovel
2070 DATA the Emperor himself!.103.a litre of beer.68.

2070 DATA the Emperor himself !,103,a litre of beer,68, a bar of soap,70,a large suitcase,64,a small key,65,a s ailing dinghy,53,a padlock,35,some driftwood,54,a small puppy, 23, some ice, 85, a rusty nail, 16

2080 DATA a pair of swimming trunks,58,a nest,20,a cup of cold tea,32,a table,66," ",64,a lever,98,a gun,47,a bullet, 2, a little girl who looks lost, 36, EMPEROR, 1, HOLU RIA,1,LITRE,2,BEER,2,BAR,3,SOAP,3

2090 DATA SUITCASE, 4, KEY, 5, SAILING, 6, DINGHY, 6, PADLOCK, 7 ,LOCK,7,DRIFTWOOD,8,WOOD,8,PUPPY,9,ICE,10,NAIL,11,TRUNK S,12,NEST,13,CUP,14,TEA,14,TABLE,15,DIAMOND,16,LEVER,17 GUN, 18, BULLET, 19, GIRL, 20

2100 PEN 3: PAPER 2 2110 LOCATE 10,2: PRINT" Death of a Dictator"

1120 PAPER 0: PEN 6: LOCATE 8,5: PRINT" An Adventure Game for the Amstrad CPC" 2120 PAPER 0:

2130 PAPER 5: PEN 3: LOCATE 8,10: PRINT" (C) Steve W. L ucas 1984"

RETURN 2140

2150 CLS: PEN 3: PAPER 1: LOCATE 10,2: PRINT "Death of a Dictator"

2160 LOCATE 2.5: PEN 0: PRINT" After years of saving, I holiday on the sunny island of Kol in booked my the Mediterranean."

2170 PRINT" I've had nothing but trouble since iving! A strike at the airport delayed my departre. It hasn't stopped raining since I arrived and many delayed my departu of the island are flooded."

2180 LOCATE 2,20: PEN 3: PAPER 1: PRINT"Press the <Spac e Bar> to continue"

2190 A\$=INKEY\$: IF A\$<>" " THEN 2190

2200 CLS

2210 PRINT"When I awoke this morning, I found that the island had been invaded by the mad Emperor of Holoria, who is demanding thefamed 'DIAMOND OF KOL'."

2220 PRINT"He is reputed to be in hiding somewhere on t he island and is threatening to blowthe island up if hi s demands are not met"

2230 PRINT:PRINT"Most of the inhabitants seem to have been killed and therefore I must take onthe task with just your help!"

2240 PRINT:PRINT"You must give me instructions in the form of two word sentences such as EAT FOOD 2250 PRINT: PRINT: PRINT" Press the (Space Bar) to start t he game"

2260 a\$=INKEY\$:IF a\$<>" "THEN 2260

2270 RETURN

2280 CLS: PRINT" That's blown it!" 2290 PRINT:PRINT:PRINT X\$

2300 PRINT: PRINT: PRINT: PAPER 1: PEN 3: PRINT"Do you wan t to play again <Y/N> ?

2310 a\$=INKEY\$: IF a\$="y" OR a\$="Y" THEN RUN

2320 IF a\$="n" THEN PRINT:PRINT:PRINT"Goodbye.... thank you for playing": END 2330 GOTO 2310

Touch Down for Mind Games?

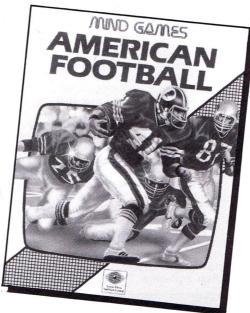
Mind Games, from a software company already well known for their strategy and adventure games, have released a simulation of American Football.

American Football was unknown in this country until a few years ago when Channel Four started coverage of games in the USA. This initial coverage sparked off interest and has resulted in a dedicated band of followers in the UK.

The Mind Games version of American Football is a full feature simulation of a match between two teams — either human against human or human against the machine. The game has full colour hi-res displays of the playfield and keeps a full statistical record of the game — the Americans seem to be very pre-occupied with statistics of games, what's wrong with a 2-1 away win?

The main method of play is regimented formations of players smashing into each other trying to inch the ball over the other team's line. The complicated manoeuvres of the men are more like a game of chess than a violent clash between two teams of modern day gladiators. It is this strategic and tactical bias to the game that lends it to computer implementation.

American Football has a 16 page booklet supplied with it to explain the



complex rules and techniques in the game.

American Football is for the 48 K Sinclair ZX Spectrum at £7.99 or Commodore 64 at £9.99.

Mind Games, APS Group, 1 Golden Square, London W1R 3 AB.

Alice Through The Video Screen

Alice in Videoland is finally on sale by Audiogenic after a long delay.

Alice in Videoland was originally written by an American company, but they were unable to continue with it, so Audiogenic took over the completion of the program.

The game is really a suite of games, each with different stages. The start up graphics are excellent and a very realisitc picture of Alice is drawn. The theme throughout the whole game is good graphics, with some stunning scenes.

Audiogenic are continuing their policy of producing their most lengthy games on

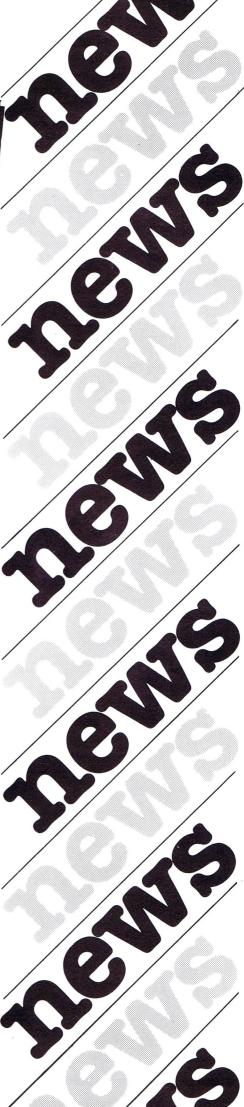
disc with Alice, which is only available on disc and will not be converted for any other machines.

Pegasis is another new one from Audiogenic and will be available on both tape and disc.

The object of *Pegasis* is to fly your winged horse around the screen, jousting with the baddies who are also mounted on flying horses. The graphics are also very good in this game. Both games are for the Commodore 64.

Audiogenic, 39 Sutton Industrial Park, Reading, Berks.





Express Programs at Menzies

Program Express is a new idea in software distribution where the program gets recorded while-u-wait in the shop.

Program Express is a new Scottish company that is supplying EDOS equipment to computer shops. Menzies are taking five of the machines with a possibility of more to follow.

EDOS stands for Electronic Distribution Of Software and has a main computer in the shop that has a main store of all the games inside it on a hard disk that can contain about 20000K of programs and information on the products. When you want a game the machine will individually program the cassette, disk, or cartridge in your computer or video game's format.

The unit is quite large and has eight slots for cartridges along the left side with other slots for cassettes and different kinds of disks on the right. In the centre of the unit is a TV screen where advertising, presentations,

demonstrations of the games can take place. There is also a keypad for interaction with the unit.

The whole system is very large and has a number of these units called 'instore computer/programmers' connected to a vast central computer which is in turn connected to the software houses and the head office of the company concerned.

There are numerous advantages to this system. A shop need never be out of stock of a popular game, it can never overstock an unpopular game, and games can be out on sale quicker, the same goes for modifications of existing games that have bugs or errors in.

At present distributors take a lot of the cover price of a cassette or cartridge. With this new system the middle man is almost eliminated as the software house has direct contact with the retailer. This should lead to cheaper and better software. Distribution costs are

€199.95

New Adventure For Atari/CBM 64

Allrian Data Services are broadening their horizons with Atari software for the Commodore 64

Allrian Data Services are well known for their range of imported American software, including their controversial 'Strip game, which raised a few eyebrows!

Ten of Allrian's 30 Atari titles have already been converted and more are on the way. The latest game is called Gwendolyn. This game runs on either the Atari or CBM 64, the Atari must have at least 40 K of memory. Discs are necessary and the program is so huge that it only just fits onto a Commodore 64 disc and takes up two Atari discs!

The upshot of having such a large program is 150 (phew!) full hi-resolution screens in an adventure to rescue the imprisoned damsel. The adventure us billed as being 'non-violent', nothing gets killed not even the player. To get from one section to another a puzzle must be solved, if you can't solve the puzzle then you

must have done something wrong or forgotten something earlier on in the

Also released for the Atari and Commodore 64 is Drawpic. This is a suite of programs coming on cassette or disc and the application, (no prizes for guessing) is graphic design. Where Drawpic is different from most graphics designers is that the documentation and programs allow the user to include the pictures in his own program. So if you have a great game with sprites flying all over the screen, Drawpic might be able to help you create a masterpiece of a backdrop

Gwendolyn costs £14.99 for the CBM 64 and £16.95 for the Atari. Drawpic costs £14.99 for the CBM 64 and £18.45 for the Atari. Both programs are on disc, but a cassette version of Drawpic is under development costing £14.99.

Allrian Data Services, 1000a Ux-bridge, Ĥayes, Middx, UB4 0 RL.

still not totally eliminated though, blank tapes, disks, cartridges, and inlay cards still have to be shunted around. The blank tapes etc. will have Program Ex-

press' logo on. Last Christmas there was such a shortage of everything that even a terriprogram would sell if it was available. If this year is a repeat performance then it will be the shops with this new system that will win.

Program Express, 23 Dalmeny St, Edinburgh EH6 8 PG.

Super Software from Supersoft

Supersoft, the Harrow based Commodore software company, are launching what could be described as the most complex but playable space game

Interdictor Mk III is a game for the Commodore 64 and a measure of its complexity is the instruction manual. The manual is over 50 pages in length and goes into great detail of the Interdictor development prototype programme. Each page has approaching 2000 words on it, diagrams are words on it, diagrams are throughout. An interesting twist to the manual is that at no time does it ever let on that you are operating a computer it looks and reads like any forces training manual. One suspicious corner of the cover has the words 'second edition 2138' on it. Has Supersoft discovered time-travel?

Interdictor pilot is for the Commodore 64 and is available on tape or disk

Also from Supersoft is a Z80 cross assembler for the Commodore 64. Mikro is possibly the best machine code development tool ever created for a Commodore machine. It makes writing machine code very easy and it is simple to use. If you want to write games programs seriously you must program in machine code as BASIC doesn't have the speed to do anything good.

Mikro helps in the development of machine code for the Commodore 64, VIC, or Pet. Mikro only works in 6502/6510 machine code (that's the machine code that Commodore machines understand).

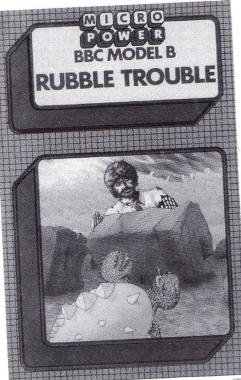
Computers like the Spectrum and the Amstrad use something called Z80 code. Wouldn't it be nice to develop games on the Commodore 64 using Mikro and having them run on a Spectrum? Supersoft have just done that. Their new Z80 Mikro cross-assembler allows you to write a Z80 machine code program on the Commodore 64 and then run it on a Z80 based machine. This kind of thing will be a boon for Spectrum owners who want to develop games commercially, but can't due to the limitations of the Spectrum.

There is a possibility of more crossassemblers for other processors if this one is a success (perhaps a 68008 for the QL?)

Mikro for the Commodore 64 and VIC 20 costs around £50 and is on cartridge. Mikro 80 will be for the Commodore 64 on cartridge although no price has been announced.

Supersoft, Winchester House, Canning Road, Wealdstone, Harrow, Middx HĂ3 7SJ.

SOFTWARE



As well as the normal type of play, you have the option of a hayfield or invisible play. In the hayfield some of the rocks you can walk over and others form the walls of the maze. With an invisible maze it is just what the name suggests and it is very difficult to judge what rock is where.

This is another variation on the PENGO theme (software companies take note — can we have some original arcade software and not variations on games that are already out) and very enjoyable to play.

POWER BBC MODEL B BLOCKBUSTER



RUBBLE TROUBLE

Runs on: BBC Made by: Micro Power Price: £7.95

Another world war has destroyed the earth (yet again!) and from the radio active rubble humanity, has emerged as primitive cave men. You would have thought that the holocaust was enough for the survivors to endure, but no—they now have to kill off the ever increasing population of 'Krackats'. These are mutant turtle-like creatures whose diet is that of warm human flesh.

To kill the 'Krackats' you must crush them with the pieces of rock that form the maze walls. A boulder will move unless it is blocked by another rock in which case it will be crushed. If the boulders do not hit the 'Krackat' then they will bounce back towards you — so beware. Also if you do not hit the 'Krackat' straight on it will move back, avoiding the rock and letting it bounce.

Certain rocks contain 'krackat eggs' which if crushed give a bonus, other rocks contain left over atomic bombs and if an attempt to move these is made another holocaust results. The background radiation is also on the increase and if it gets too high then you die.

BLOCKBUSTER

Runs on: BBC Made by: Micro Power Price: £7.95

The elixir of life has been promised to whomever can accomplish a difficult task set by the leprechauns. You are Harvey, a foolish young rabbit, who has decided to attempt this.

You must bounce on every rock on the giant's causeway and change the colour of it. While doing this you must avoid being hit by the cascading balls and the guano dropped by the albatross flying overhead.

You must also avoid Reynard the fox



by jumping on one of the spinning discs which will take you to the top of the causeway whilst he plummets to his death trying to follow you. You can gain bonus points by bouncing on one of the "mischievous little creatures" who leave a trail of dirty footprints. The footprints also have to be bounced on to change them to the correct colour.

On higher levels the rocks have to bounced on twice. This is made more difficult as a squirrel keeps turning them back to their original colour. The keys are difficult to use at first, but soon become easier.

The response time is a little slow, but this problem can be overcome if you plan ahead. This is an enjoyable variation of the arcade game Q * BERT.

PENGI

Runs on: BBC Made by: Visions Price: £7.95

There are a number of 'Pengo' type games around and of the few I have played this is definitely the best. Pengi is a pacman type game but with a few extra features.

You control a chubby penguin who is

RINVIINWS

MAIRE

trapped in a maze made of ice cubes, pursuing you are strange beasts called snowbees (no relation to honey bees). The snowbees do their best to catch you and take away one of your three lives. Against the snowbees you have two defences. Firstly you can kick an ice cube into them. This involves running up to the chosen cube and kicking it, the ice cube then travels in the direction in which it was kicked until it hits another ice cube, then it stops. Any snowbee in its path is killed. Your second defence is to stun them. This is achieved by kicking the perimeter fence of the maze, any snowbee touching the fence is stunned and can be trampled.

Control of the penguin is by keyboard only, the keys are a little tricky but fortunately can be redefined. There are no skill levels as such but there are apparently limitless screens and a useful practice mode.

Pengi is an excellent game which is highly addictive, sound and colour are used well. I look forward to new

releases from Visions.



BIRDS OF PREY

Electron Runs on: Made by: Romik £6.99 rice:

The on screen instruction for Birds of Prey merely repeats what you get on the card insert, which is a bit disappointing. I would have preferred a loading screen with a display of potential enemies and scores. The initial game screen supplies information on the current level of difficulty (1 to 4), a top five

scoreboard (plus the level at which it was achieved), and the sound on/off options.

The game itself involves knocking off a considerable number of standard Galaxian like creatures with your laser base. It turns out to be spell-binding stuff with debris and creatures pouring down the screen, some of them harmless, some of them capable of quickly dispensing with your three lives.

The aural warnings of oncoming Death Bombs and the nightmare of picking out the screaming Kamikaze birds from amongst the other debris, bullets and Circlers, are the highlights of what should have been an ordinary game but which has that addictive quality.

It's certainly quick enough. Level four is very rapid indeed and the relaxed pose taken up on level one gives way to tightening around the shoulders, intense concentration and a thumb twitching on the joystick button (the game is one of those compatible with the First Byte joystick interface).

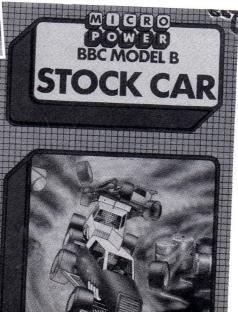
Keyboard controls are three in number only and so easy to handle. Your possible rate of fire also increases with the levels so it isn't all bad as you progress. You soon learn strategy for (say) mopping up stragglers at the end of a screen by moving parallel to their flight before firing.

One strange occurrence: after about 10 games two Circlers blew up at the same time and the whole game froze, had to be terminated and reloaded. Not to worry and no chance of spoiling a splendid all action game for the Elk.

STOCK CAR

BBC Runs on: Micro Power Made by: £7.95 Price:

Stock Car involves driving a small car, or cars in the two player game, around 1 of 6 tracks. This may sound a bit petty but in fact it's great fun. The game would be no fun if there was no opposition, and fortunately there is. The jam



cars (three of them) swerve in front of you every time you go to overtake. What makes the game even more outstanding is the two player option. For this you choose the option followed by the number of laps you want and which circuit. In the two player game there is only two jam cars - the third being made by your opponent, who is also trying to be the first to the chequered flag.

The number of the track you choose does not refer to its difficulty, I found track three the hardest because of its tight hairpin bends. There is one other factor you can determine at the beginning of the game and that is skidding. You decide whether to have oil patches and how much you skid when cornering, I found about 10% was the most realistic but for beginners 0 % is more advisable.

Control of your car is by joystick or keyboard, but joysticks give no advantage over keyboard control. There are four controls, left, right, up a gear, and down a gear, you have four gears, 1 and 2 are used mainly for starting moving after a crash, and gear four is for roaring down the straights.

The graphics are not stunning but are colourful and adequate, the sound is also kept to a minimum but is perfect for the job. I think Stock Car is a well thought out game and I'm already addicted.

PSYTRON

Runs on: ZX Spectrum 48k Made by: Beyond Price: £9.95

Beyond boasts that the game stands up top class programs such as Jetpac, The Hobbit and Psion's Scrabble. The game certainly equals, and probably beats, them.

The Psytron controls the massive Betula. 5 Installation (consisting of the medical unit, freezetime, oxygen unit, docking bay and teleport centre, a recycling unit, pleasure dome, crew's quarters and many more) packed into ten superbly drawn screens. It will cope with defensive demands which will leave the human brain unhinged and computer circuits scrambled.

The first level is the droid mode. You are a droid and must destroy saboteurs who are teleported down from the alien ship. The aliens take the form of tripedroids because of their three-footed nature. There is a time limit of 300 seconds and then the score and the average are given. Then you play this screen again until you have played it five times and the average is greater than 50%. If this is true you will be permitted on to the second of the 6 levels. This has you controlling some sights to gun the alien craft down. This continues as the first one until permitted on to screen 3. An excellent game. Highly recommended.

FIRE ANT

Commodore 64 Runs on: Made by Mogul

Price:

The scenario of this game is based around the loyalty of the last remaining soldier ant whose queen has just been captured by a band of renagade scorpions and has therefore the perilous task of having to rescue her.

The ant's movements are controlled by the direction of the player's joystick (it would have been useful to allow for a keyboard option as the manoeuverability of the ant could be hampered by the failings of a well used joystick, during a

frantic chase).

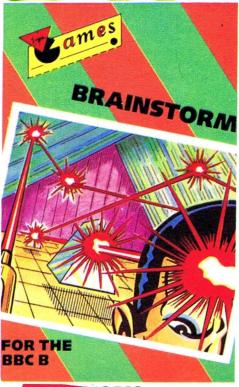
There is only one skill level but as each screen is traversed the problems and mazes posed become progressively more complicated. The basic object of the game, that runs through each of the different screens is that of collecting the certain key that opens the specific door that could lead to the next screen, or the door that leads to another key.

To add to the game, the keys can only be taken in a specific sequence. So, passing over one key may have no effect whilst another may then be used to open a yellow door, revealing either the exit, another yellow barrier or some vital life preserving substance!



So far, I managed to work my way through 5 of the screens, but with only 3 lives, considerable practice will be required as an action in the wrong sequence, results in the loss of a life, i.e., not collecting the oxygen, crossing the water without building a bridge, crossing bad water etc. Then there is the ever daunting presence of the 3 scorpions, whose touch is fatal and who occassionally change colour and double their speed of movement. As an aid, there is on each screen, a spade shaped podule, which once taken allows the ant to pass over the Scorpions unharmed, for a period of 15 seconds.

On the whole I found this to be a very exciting and addictive game.



BRAINSTORM

Runs on: Made by: Virgin Games Price:

Brainstorm is a two player grid based game. The players attempt to destroy each other's brain situated on opposite sides of the screen. To do this there is only one method, laser refraction. This may sound complicated but in fact it is

easy and unentertaining. Each player places one electro-prism on each of his turns, or alternatively he may fire his laser. Electroprisms are like mirrors, they deflect laser beams in a set direction. To place a prism only requires co-ordinates and then a number from 1 to 8 which determines in what direction the laser is deflected. The number corresponds to a compass direction (NE or South etc). To fire your laser you just move it up or down and fire. The laser beam travels until it hits a prism when it is deflected. A laser beam can travel through up to 25 prisms or until it leaves the grid. If it hits any brain then the score is altered and the grid is reset.

There are three grids to choose from and the length of time which the laser is visible can be set. The graphics and sound are below average so in my opinion unless you are desperate for a game, leave Brainstorm alone.

NIFTY LIFTY

Runs on: Made by: Visions £5.95 Price:

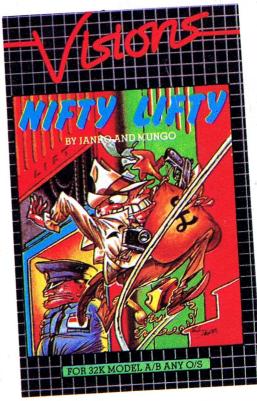
There is very little that can be said to describe this game. You are on the ultimate shopping trip — you take everything. You move up the screen floor by floor avoiding getting hit by the lifts that move up and down.

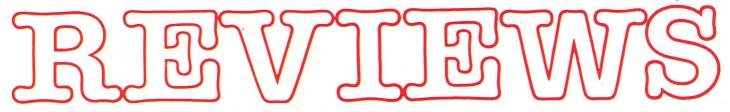
The number of lifts and the speed at

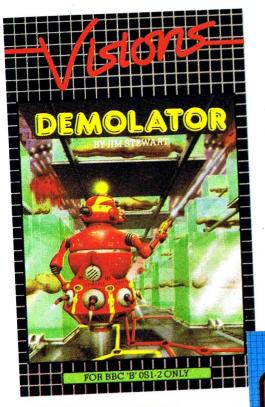
which they travel increases as you complete more and more screens. At higher levels there is more than one lift per lift shaft and using some new law of physics they allow lifts to go up and down in the same shaft.

The use of graphics is very good but the sound lets the program down. Like many games now coming on the market it asks if you want music while it loads. If you select yes it plays what is at first a very nice tune but it continues even when the main program has been loaded. There is no way of stopping it except by pressing break.

There is little skill involved in this game as your only controls are left and right — but younger users might enjoy it. It got a bit boring after the first few levels.







DEMOLATOR

Runs on: BBC Made by: Visions-Price: £7.95

Demolator has been widely advertised by Visions so I took it for granted that it would be good. I was wrong. Demolator involves you controlling a robot around a cargo bay of a space freighter. Your mission is to stop the invading demolators (unfriendly robots) from stealing your important cargo — humans. The demolators have different roles, some steal the humans from their life support (frozen) chambers while others simply attack you.

others simply attack you.

Control is by one of a choice of methods and even though the keys may be redefined I found a joystick easier.

After clearing all the enemy in each phase you progress to a harder but very similar one. For those who want to get good at the game there is a practice version of the game on the 'B' side of the cassette.

Although the game is colourful and sound is acceptable there is no real enjoyment and its addictive qualities are nil.

JET POWER JACK

Runs on: BBC
Made by: Micro Power
Price: £7.95

As the name suggests to those acquainted with the Spectrum games 'Jet Pack', Jet Power Jack is not very original. Despite that, this version is

superior to the Spectrum game. Jack must refuel waiting spacecraft by fetching fuel pods from the far side of the screen/hangar, and returning to the space ship. The screens (5 of them, selected at start of each game) are not as barren as those of Jetpack and each one is different. To stop you from performing your task are various nasty creatures ranging from bats to living balloons which send you crashing down to earth when you cross their path.

Control is by joystick or keyboard, the keys are in sensible positions and respond well, the joystick offers no great advantage. The graphics are colourful and are generally flicker free, one complaint is Jack's movement is not as smooth as it could have been.

A moderate idea has been made into a very playable game which is very addictive. Jet Power Jack is well worth the money to anyone who likes a challenging game.

PROGRAM POWER BBC MODEL B JET POWER JACK



a number of game playing options, including the ability to turn off the sound, an entirely necessary option for those who don't like the little computer ditty trilling away in the background while they are trying to concentrate on the matter in hand. Why don't they use the much nicer lower volume registers of the sound chip?

The matter in hand involves controlling the climber with left and right keys as he makes his way from level to level, unable to stop moving in either direction in his struggle to the top. The only respite is at the start of each level where he may halt before venturing out into the cut and thrust world of point scoring objects and lifts which can 'ping' the climber back to his starting point at the cost of one life.

Since the climber is always on the move and so are the lifts, anticipation and strategy come into the completion of a screen successfully and the unique accolade of 'engaging' the lavatory at the top of the climber's tree.

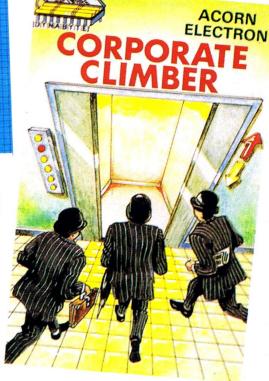
As you can tell, the game has a certain humorous aspect. The screen is all go with a time bonus ticking away, an indication of blood pressure which seems to accurately reflect the players current state of mind! and a motley assortment of objects for the climber to collect on his ascent, including a telephone, a cup of tea, a key, and an acorn. You have five lives to get as far as you can in this software rat race and will undoubtedly enjoy every one of them.

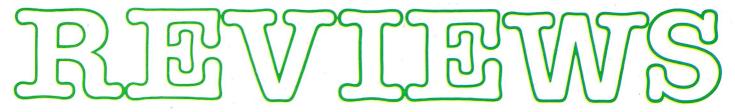
CORPORATE CLIMBER

Runs on: BBC/Electron
Made by: Dynabyte Software
Price: £7.95

This has to be one of the simplest (in terms of strategy) games available for the BBC Micro or Electron. There are two different versions since the BBC game on an Electron is painfully slow and jumpy. However the Electron game does not achieve the speed of the BBC and results in a lesser challenge for the expert player but no less fun.

The game begins with the choice of







The Amstrad computer comes as a two part package with the keyboard and cassette deck in the first box with a monitor and power supply in the other. A monitor is a kind of television that can only be used with a computer, give a better picture, and cannot pick up broadcast signals.

There are two monitor options: a full colour RGB type, and a green screen. The full colour monitor is like a small

it's £100 cheaper and getting the TV modulator box later for playing games.

The TV modulator box has its own power supply and will drive a television set just like a normal computer. This means that the green screen version of the computer can be bought at the cheaper price and you can use a TV to play games on.

In Built Cassette

Also inbuilt into the package is a cassette recorder. This is a standard

a bit dodgy. By comparison a BBC uses 300 or 1200 baud, a Spectrum uses 1500, and an Oric uses 300 or 2400.

The cassette deck is on the side of the keyboard. This is good for easy access but does mean that it is difficult to put the unit on your lap for easy typing. Even if you could the two leads to the monitor are only about eight inches long, which makes things difficult.

Keyboard

The actual keyboard itself is very good. The feel is almost up to the excellent quality of a Commodore keyboard and is as good as a BBC. There are three clusters of keys. The main keyboard which is very well laid out with a quad sized enter key and a full space bar. All the control keys are around the edge and are colour coded.

The 12 key numeric key pad, which isn't really a numeric keypad at all. The number keys are along the top as usual and the extra keys are actually function keys, the keys come pre-defined as number keys which is an excellent idea.

The last cluster is the cursor keys which are formed in a square with the copy key in the middle. This is a nice touch and makes editing easier which it needs as the editor on the Amstrad is awfull.

An editor is a way of changing a program that you have typed in. A good editor is very important for somebody that is new to computing. The best editors are found on the Atari, Adams, Einsteins, and Commodores, these are called screen editors and are very easy to use. The worst types are called line editors and are found on



television - in fact the tube is a standard TV tube and doesn't give the definition of a dedicated RGB monitor. It can just about resolve 80 columns, but not very well. The 80 column mode of the Amstrad can get quite tiring on the eyes with the colour monitor.

The green screen monitor is quite good - having a custom monitor tube similar to those used for long periods by programmers and word processor operators who don't need colour. The audio cassette recorder with a few modifications for using computer tapes. One thing that Amstrad missed was having a computer controlled digital cassette deck. The Commodore deck is, and has a lot of computer control over it, it's 100% reliable, and can be pushed to 8000 baud. The Amstrad device needs to be told by the user when the play button is down, it has two speeds: 1000 baud and 2000 baud, the 1000 baudrate is quite reliable but the 2000 is cursor editor or a copy editor, the Oric has something similar although more primitive.

The Amstrad has a similar version of the BBC editor which is very difficult to use. The Commodore/Atari screen editor is very good to use and was specifically designed for computers. Line editors are a throwback from teletype editors where you could only work on one line at a time. I wish that computer manufacturers had more



sense, an editor is the interface between a computer and the user — it must be good, the Amstrad one just doesn't come up to scratch.

Graphics Ability

The graphics are quite good — three modes with up to 16 colours. The first mode is 640 by 200 in two colours, the second mode is 320 by 200 in four colours, and the last mode is 160 by 200 in 16 colours. All colours are selected from a palette of 27 plus any two colours flashing. Due to good memory paging the hi-res screen is hidden under the Basic ROM in a similar manner to Commodore 64 hi-res screens. Further paging is carried out on the RAM for basic programs. This leaves up to 42K of RAM for the user whatever hi-res mode he is in.

This memory paging idea is very good as it allows a good 32K long Basic interpreter to co-reside with a 16K video screen and 48K of Basic RAM. This gets past the worst features of some of the most popular competing computers such as the BBC with a good Basic but little RAM and the Spectrum with a lot of RAM but a very poor Basic.

The graphics are on a par with the BBC but with a greater choice of colours (16 on the screen at once from a choice of 27 instead of 16 from 8) though the Commodore 64 still has the edge with its different graphics modes, sprites, and multiple screens. These graphics knock the Spectrum for six—we can expect some really great games for this computer soon.

but similar, one to that used in the Taitung, Oric, and other popular sound is produced machines. The through a tinny little speaker in the keyboard unit. There is, however, a good volume control on the side of the cassette deck and a headphone socket on the back of the machine. We found that the voltage level through this socket wasn't enough to drive a set of walkman headphones without an amplifier. A very nice feature is that the socket is wired for stereo, this is because, like most sound chips, the Amstrad has three sound channels. This means that it can play up to three note chords. On the Amstrad the first channel is designated as the left channel, the second as the right channel and the third comes through on both. This is an idea that was first used about five years ago on a computer called the DAI but it didn't catch on. I hope that software houses use this great feature as it has a lot of potential.

Beautiful Basic

The Basic is very good, it is very BBC-like, having procedures and other structures. There are some extra features as well which improve considerably on Acorn's original. Interrupt handling is supported from Basic as standard. At this point I should explain about interrupt handling. An interrupt is a way of stopping a program in mid flow. Doing something else. And then returning again to where you stopped off. There are various interrupt options, three timers that operate every 50th of a second, and the sound queues. The sound queues allow music and sound

effects to be played whilst a program is running. When the music has run out an interrupt will happen telling the computer to 'top up' the sound chip for more music.

One thing that is very bad, and inexperienced users will find it a great problem, is spaces between words in a program are compulsory. Spaces in a program use up memory, and if you are getting heavily into a programming session at 2am and you are wondering why your latest masterpiece will not work, it is very annoying to find that the culprit is the ommision of a mere space.

The Amstrad's connections with the outside world are not as impressive as the BBC or Commodore 64 but they are there. There is a parallel printer port, a disk drive expansion port, monitor socket, power, headphones, and joysticks.

The printer port will drive most popular printers. The disk expansion port is the one that all extra add-ons will have to hang on. There is the promise of disks to put on this port and this is where the 'up to 240' sideways ROMs will have to be put. There is little need to put 240 ROMs on but some people will want to put in quite a lot as is demonstrated by some BBCs that I have

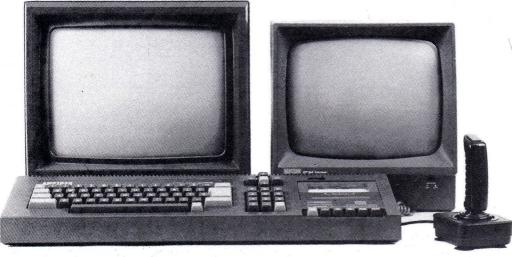
The Joy of Joysticks

The joystick port is the connection that will be of greatest interest for the games player. It is a single 9 pin D connector similar to those used by Atari and Commodore, but with one important difference. There is only one socket but it is possible to plug in two joysticks as long as you use the Amstrad ones, this is because the Amstrad joysticks have the usual stick, fire button, suction cups, and long lead. However, on the base of the stick is a socket where another joystick can be plugged in, thus allowing two joysticks to be used!

Overall the Amstrad is a very interesting machine. Its excellent graphics ability and very good (and stereo) sound make it a promising games machine. A lot of software companys are producing software for the Amstrad, so watch out for Jet Set Willy, Fred, and Booga Boo the Flea.

The one thing that may put it out of most peoples bracket is the price: £229 with green screen and £329 with colour. For games you really need a colour screen and if you are going to get a TV modulator to use with a colour Tv then why bother with a monitor that adds £70 to the price anyway? The same could be said for the cassette recorder although I always have prefered a dedicated unit without all the connecting leads and mains wires, and a dedicated unit wouldn't add a lot to the price (especially as they are made by Amstrad themselves).

To sum up I think that the Amstrad could have wiped the whole computer market clean if they had dropped the monitor and cassette recorder and released the computer for around £150. As it stands it will still emulate the success of the BBC micro, especially as it is following in the Beeb's footsteps with a similar spec machine (although without the support and options available with the Beeb).



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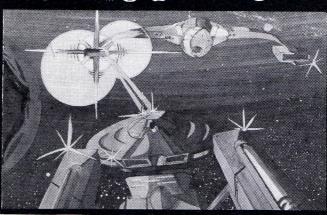
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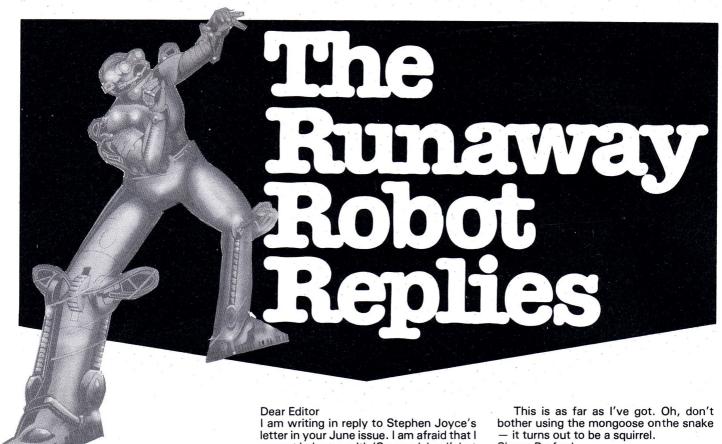
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The computer game is DEAD...



Dear Sir,

Two of the main Dragon Users Groups, Games and Computers of Wareham (who seem to have disappeared) and The Dragon Dungeon (who are no longer trading) are now unable to provide the service previously available.

In the past many people have sent cash to user groups only to get little or nothing in return, we are prepared to of-fer A FREE OF CHARGE enrolment to Cuthbert Club, which is Microdeal's own user group to anyone wishing to join...all they need do is write to us at the following address, for their free badge, quarterly magazine hint sheets etc. Yours faithfully,

John Symes Microdeal Ltd. 41 Truro Road, St. Austell, Cornwall PL 25 5JE

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cannot help you with 'Savage Island', but I have almost completed 'Pirate's Adventure'.

The key to the door is located under the mat in London. The mat is nailed down and to remove the nails you will need the clawed hammer from the cave that joins the hallway that was mentioned in the let-

Give some rum to the pirate in the grass shack as this will make him leave. When he's gone, open the chest with the keys. Here you will find a map and a plan for a boat, TAKE these. Get the water wings from the cave by the hallway and swim along the lagoon.

When you've crossed the lagoon you must grab some fish and feed the crocodiles (this will take a few goes as the fish keep drying up). When the crocodiles have been suitably fed they will let you unlock the door. The door leads to the hallway, this is the way to carry the sails and other objects from the cave to the beach. You must look at the plans to decide what you need. To find the anchor look in the lagoon.

Build the boat and wake the pirate in London. Return to the boat and type 'set sail'.

On treasure island, walk 30 paces in the field and dig (get the spade from the pirate's island). You should then find the first treasure. It is in a box that can be opened with the clawed hammer.

The other treasure is in the monastry, but it is guarded by some snakes which refuse to let me reach it.

Simon Burford Middx

Out of all the letters that we received, Simon got the furthest. Can you improve on this? I'm sure anyone who hasn't got very far is dying to be given some more



Dear Sir or Madam,

I would be grateful if you would mention the formation of the Independent Coleco Adam Users Club in your magazine. We are a national club specializing in the Coleco Adam computer system.

We aim to offer the following to members:

Newsletter (10 issues per annum) Articles News Reviews **Program Listings** Hints and Tips Problems and Answers Software Library Area meetings around the country.

Users, owners and potential owners of the Coleco Adam computer system are welcome to write to the club at the address below. Prospective members are requested to enclose a stamped, selfaddressed envelope if asking for membership details.

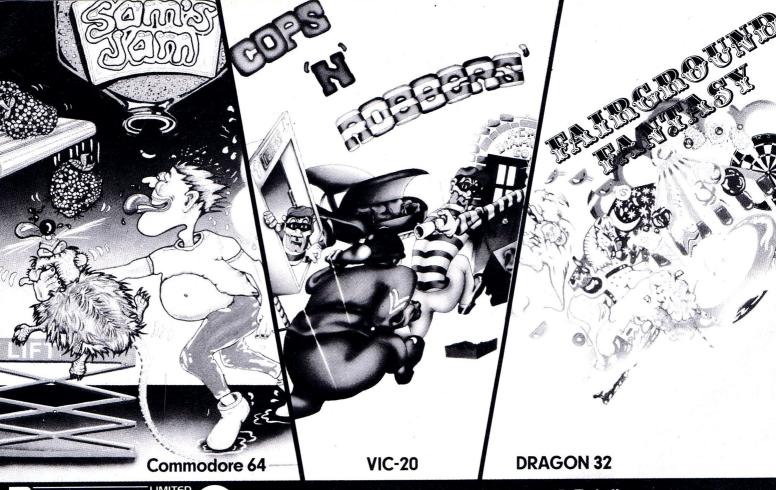
Yours faithfully **David Winnett**

Independent Coleco Adam Users Club, 20 Wordsworth Close, Towcester, Northamptonshire, NN12 7JU.

Have you got any opinions to air, has someone somewhere upset you and you want to grizzle and gripe? Or maybe you're full of the joys of spring

and feel like telling a happy story? Whatever you want to say, be it good, bad or indifferent drop us a line here at Games Computing and get it off your shoulders. Send your letters to:

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...LONG LIVE



By lan Livingstone

250K of pure mystery. Be the first to know. Send your name and address to: Eureka!, 228 Munster Road, London SW6 6AZ Missile Silo is an adventure game that runs on the Commodore 64. The scenario is an American missile base and you are Russia's best KGB agent. Your mission is to 'hack' into their com-

puter and stop the launch.

Commands are transmitted to the computer the usual verb/noun format. Verbs that can be used are Look, Eat, Drop, Consume, Use, Repair, Put, Shoot, and Inventory. Most words have an abbreviation of three letters or so.

A useful hint is 'look at everything

carefully'

There is a time limit on this adventure as the missile will be launched in 36 minutes!

2030-2125	Positioned
	information display
2130-2380	Accept input and
	check for errors
2390	GOTO lines
2000	depending on which
0400 0540	verb was used
2400-2540	Check on space
	disease and death if
	necessary
2550	Alter clock
2551	Check to see if you
	have space disease,
\$ 10 miles 150	if so then increase
	your level of illness
2552	
2552	Print current health
	condition
2554	Check to see if time
	has run out

Variables Use

2500-2620 2630-2640 3000-9380 9800-9890

14000-14170 15000-15380 18000-18110

19000-20010

11000

IL	, Health ≫ 👙 👙
TL\$	Titles
TL	Tab position of titles
RR\$	Name of room
RN	Room to north
RS	Room to south
RW	Room to west
RE	Room to east
00\$	Name of object
OG	Whether object is gettable
OM\$	Message on object
OP	Position of object
CC\$	Abbreviation of object
VB\$	Names of verbs
HR	Time left
CR	Current room number
IN\$	Input
V\$	Input verb
VN	Verb number
N\$	Input noun
NN	Noun number
L\$	Illness message
Ğ	Guard status
NI	Number of items being carried
A\$	Picture of rocket
500	Tiotale of Tocket

Check on guards

Check end game

Security check

Wait Verbs

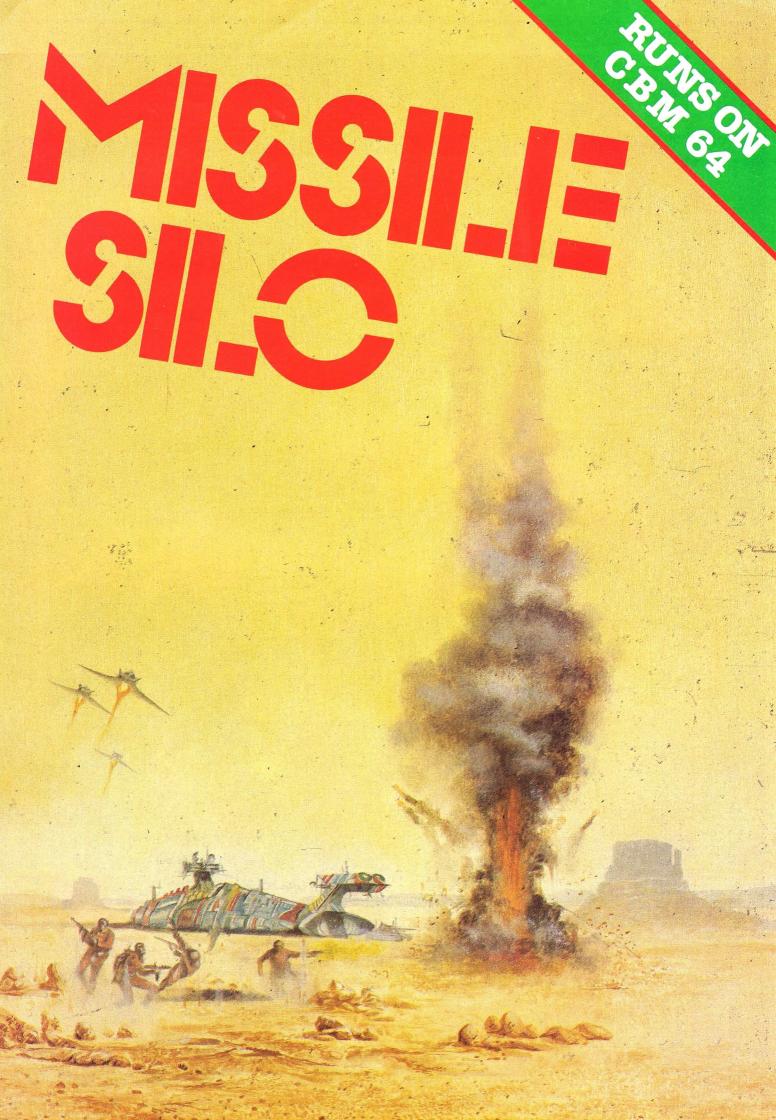
Look Out of time

Inventory

Win game

RUNdown

65-128 130-143 150-280 290-310 320-700 800-1999 2000-2020	Action Define title display Centre titles Print titles Await response of user or continue after time delay Instructions Set up data Give time remaining	OM\$ Message OP Position of CC\$ Abbreviat VB\$ Names of HR Time left	object object is gettable on object of object tion of object f verbs oom number b
		NN Noun nur L\$ Illness me G Guard sta	nber essage



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990 DRTA PETRI DISH,-1.A BACTERIA COLONY,2.PE
1000 DRTA 30LD KEV,-1.0.1.00
1010 DRTA 30CK PART 15 COMPOSED OF CARBON,SRLT PETRE AND SULPHUR'",3,80
1030 DRTA CONFUTER WITH DRANGE BUTTON,0, SERIAL NO. .1.CO
1030 DRTA CONFUTER WITH DRANGE BUTTON,0, SERIAL NO. .1.CO
1030 DRTA CONFUTER WITH DRANGE BUTTON,0, SERIAL NO. .1.CO
1040 DRTA COMPUTER WITH DRANGE BUTTON,0, SERIAL NO. .1.CO
1050 DRTA BRICERY, 30,00 DR
1060 DRTA BRICERY, 30,00 DR
1060 DRTA SHORED,-1,0,0,0 DR
1060 DRTA SHORED,-1,0,0 DR
1070 DRTA SHORED,-1,0,0 DR
2375 PRINT:PRINT:"I DON'T UNDERSTAND"
2375 GOTO 2340
2375 GOTO 2340
2376 GOTO 2340
2378 GOTO 2340
2380 NN-J
2390 ON VN GOTO 3000, 3500, 4000, 4500, 5000, 6000, 8000, 8500, 9000, 9800, 11000
2400 IF ILD-3 THENL$="$I FEEL ILL":GOTO 2550
2420 IF ILD-3 THENL$="$I FEEL ILL":GOTO 2550
2420 IF ILD-7 THENL$="$I FEEL VERY ILL":GOTO 2550
2420 IF ILD-7 THENL$="$I FEEL VERY ILL":GOTO 2550
2430 IF ILD-8 THENL$="$I FEEL VERY ILL":GOTO 2550
2440 IF ILD-9 THENL$="$I FEEL VERY ILL":GOTO 2550
2450 IF ILD-9 THENL$="$I FEEL VERY ILL":GOTO 2550
2450 IF ILD-9 THENL$="$I MY VERY VERY ILL":GOTO 2550
2460 IF ILD-9 THENL$="$I MY VERY VERY ILL":GOTO 2550
2470 IF ILC-10 THEN 2550
2490 PRINT: "JOURDOWN HOUSE WHATH "
2490 PTY="****** YOU'RE DEAD *******
2490 PTY="******* YOU'RE DEAD ********
2590 IF Y=C20-(LENCTY$)/2>)
2510 PRINTINE;TY)TY$
2520 FOR J=1 TO 100
2530 NEXT J
2531 IF OP(11)<0 AND ILC! THEN IL=IL+3
2552 IF L$<0""THENPRINT:PRINT:PRINT:SPINTL$
2553 L$=""
2554 IF HK<=0 THEN 15000
2550 IF CR=8 AND G=0 THEN G=1
2570 IF G=1 THENPRINT:PRINT:PRINT:BYOU HAVE AWOKEN THE GUARDS"
2580 IF G<0 THEN 2530
2590 PRINT:"JOURDOWN HOUSE WHO KEN THE GUARDS"
2500 IF G=1 THENPRINT:PRINT:BYOU HAVE AWOKEN THE GUARDS"
2500 IF G=1 THENPRINT:PRINT:BYOU HAVE AWOKEN THE GUARDS"
2500 IF G=1 THENPRINT:PRINT:BYOU HAVE AWOKEN THE GUARDS"
2500 IF G=1 THEN G=2
2630 PRINT:PRINT:PRESS / %$PACES* TO CONTINUE"
2631 IF GOTO 2520
2632 IF G=1 THEN G=2
2632 PRINT:PRINT:PRESS / %$PACES* TO CONTINUE"
2634 GET I$:IF I$</p>
2635 PRINT:PRINT:PRESS / %$PACES* TO CONTINUE"
2636 GET I$:IF I$
3637 IF OP(11)=0 THEN IL=IL=1
2640 GOTO 2600
3690 IF NHOYATHEN 3609
3690 IF NHOYATHEN PRINT:PRINT:MOTHING SPECIAL":GOTO 26000
3690 IF NHOYATHEN 3609
3690 IF NHOYATHEN PRINT:PRINT:PRINT:BYOU HEN RC=RK(CR):I=1
3520 IF NH=3 AND RMCCR)<0 THEN RC=RK(CR):I=1
3520 IF NH=3 AND RMCCR)<0 THEN RC=RK(CR):I=1
3530 IF NH=4 AND RCCR)<0 THEN RC=RK(CR):I=1
3530 IF NH=4 AND RCCR)<0 THEN RC=RK:GOTO 26000
3550 PRINT:PRI
                                                                                                                                                                      GOTO 2340
NN=J
```

```
4000 JEDPOWN COCRNIDOROPOROMINATOR THEN PRINTING CONT. FIND 11, "001020000 4000 10 OCCUPATION THE PRINTING CONT. GET THAT I "0010 20000 4000 10 OCCUPATION THEN PRINTING CONT. GET THAT I "0010 20000 4000 10 OCCUPATION THEN PRINTING CONT. GET THAT I "0010 20000 4000 10 OCCUPATION THEN PRINTING CONT. GET THAT I TO DECORD IN "OCCUPATION THE PRINTING CONT. GET THAT I TO DECORD IT DECORD IT TO DECORD IT DE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9150 | IFOP(8)=250ROP(24)=250ROP(9)=250ROP(18)=25THEN 9208
9160 | PRINT:PRINT"THE DRWN THING'S EMPTY !"
9178 | GOTO 20000
9200 | IFOP(8)=25BNDOP(24)=25BNDOP(9)=25BNDOP(10)=25 | THEN 9250
9210 | PRINT:PRINT"IT'S NOT FULLY LORDED"
9220 | GOTO 20000
9250 | PRINT:PRINT"**** BANG ******:OP(8)=18:OP(9)=18:OP(10)=18:OP(24)=18
9260 | OM$ (25)=18":IF NNC27 THEN9300
9270 | PRINT:PRINT"**** BANG *****:OP(8)=18:OP(9)=18:OP(10)=18:OP(24)=19
9280 | PRINT:PSINTS OPEN."
9290 | OP(27)=18:R(4)=0
9290 | OP(27)=18:R(4)=0
9300 | IF NNC31S THEN 9340
9310 | PRINT:PRINT"BE LOCK HAS BEEN SHOT OFF AND THE DOOR"
9295 | OTO 20000
9300 | IF NNC31S THEN 9340
9310 | PRINT:PRINT"BE UDARD THE LOOR BUT THERE ARE";
9320 | PRINT:PRINT"HE BULLET JUST BOUNCED OFF."
9330 | FORT:PRINT**ND DAMAGE IS DONE."
9330 | OTO 20000
9340 | IF NNC31S THEN 9370
9350 | PRINT:PRINT**ND DAMAGE IS DONE."
9380 | OTO 20000
9370 | PRINT:PRINT**ND DAMAGE IS DONE."
9380 | OTO 20000
9370 | PRINT:PRINT**ND THING HAPPENS !"
9880 | PRINT:PRINT**NOTHING ": OTO 20000
9870 | PRINT:PRINT**NOTHING "
```

```
Part 2.
             Part 1.
                                                                                                                                          HI=0
    10 PORE52/28:PORE56/28:CLR
                                                                                                                                     9 REM***SET VARIABLES***
                                                                                                                                     10 LB=0:8C=0:M=5
15 PRINT"D":POKE36879,8:POKE36869,255
    20 FORI=7168T07679
           READA
                                                                                                                                      20 E(1)=10:E(2)=11:G=140
    40 POKEL, A
    50 S1=36875:S2=36874
    50 NEXTI
                                                                                                                                     60 POKE36878,15
    60 POKE198,3:POKE632,147:POKE633,131
                                                                                                                                      70 C=30720
                                                                                                                                    99 REM***PRINT PYRAMID***
100 Print": Sopoodoodoodoo!@bee!@bee!";Chr$(34);"#$"
    99 REM***Q*BERT***
   100 DATA195,129,149,149,129,195,219,201
109 REM***PYRAMID***
                                                                                                                                     105 PRINT"SINDEPENDENT"
   109 KEMR##FYKHMILD###
110 DATA255,126,60,24,153,126,60,24
120 DATA255,255,255,255,255,255,255
130 DATA1,3,7,15,15,15,11,9
                                                                                                                                     110 PRINT" NORPODDENCE
                                                                                                                                     120 PRINT" NO DEPARTMENT
                                                                                                                                                PRINT" PRESENTED TO
                                                                                                                                     139
   140 DATA0,0,0,0,24,60,126,255
150 DATA128,192,224,240,240,240,208,144
                                                                                                                                     140 PRINT" MEDICE BOBE"
                                                                                                                                     150 PRINT" PROPERTY F
   160 DATA231,102,60,24,153,126,60,24
165 DATA129,195,231,255,255,255,219,153
                                                                                                                                     160 PRINT" PREPARED D D"
                                                                                                                                                PRINT" PREPER DE CEGEGEE
                                                                                                                                     170
                                                                                                                                                                                                                   開)<=13"
    169 REM***DEAD BERT***
                                                                                                                                                PRINT" DED DED DE F F F"
   170 DATA195.141,169.141,129,195,219,201
180 DATA195,177,149,177,129,195,219,60
                                                                                                                                    190 PRINT" MARABARD D D D"
200 PRINT" MARABARD CBGBGBGBE"
                                                                                                                                    184 REM***BALL***
    185 DATA199,163,65,65,65,97,179,199
    189 REM***COILY***
   190 DATA231,215,223,231,251,199,189,195
                                                                                                                                    250 PRINT" PROPERTY D D D D
    199 REM***DEVIL***
                                                                                                                                    260 PRINT" DEPOSIT F F F F F F F F
   200 DATA66,0,165,195,129,102,219,237
   209 REM***BOOT***
                                                                                                                                    280 B(1)=7756:B(2)=7756
   210 DATA31,31,17,0,0,0,0,16
                                                                                                                                    290 0≒8087
   219 REM***BARREL***
                                                                                                                                     500 PRINT" 海紅河線(1)*+"
   220 DATA255,129,36,36,126,36,36,129
  229 REM***MUSHROOM***
230 DATA249,243,243,231,231,129,129,195
239 REM***BROLLY***
                                                                                                                                                PRINT"
                                                                                                                                    510
                                                                                                                                    515 PRINT"海域域域的原理的 - 域域開發的 元"
                                                                                                                                    517
                                                                                                                                                PRINT"HUMENEUMANN"; HI;
  240 DATA199,1,41,239,239,239,235,247
249 REM***MUSICAL NOTE***
250 DATA231,233,239,239,143,15,15,159
259 REM***PLANT***
                                                                                                                                    520 FRINT"海豚豚的豚豚豚豚豚豚豚豚豚豚豚豚豚豚, ?魚雞!!
                                                                                                                                    530 PRINT" PREPREPREPRENCO
                                                                                                                                                REM***MAIN PROGRAM***
                                                                                                                                    599
                                                                                                                                    600
                                                                                                                                                PRINT"SIMMEN"; SC
   260 DATA159,87,235,239,131,131,199,199
                                                                                                                                                PRINT"班权利斯斯斯斯斯斯斯斯斯斯斯斯斯斯")M
                                                                                                                                    610
   269 REM***FACE***
                                                                                                                                    699 REM***MOVE BERT***
   270 DATA153,165,36,0,102,60,153,195
                                                                                                                                    700
                                                                                                                                                J=PEEK(197)
                                                                                                                                              JEPER(137)

IFJ=32THENPOKE198,0:WAIT198,1

IFJ=48THENPOKEQ,2:POKEQ+C,2:GOSUB2000:Q=Q-67:GOTO750

IFJ=33THENPOKEQ,2:POKEQ+C,2:GOSUB2000:Q=Q+65:GOTO750

IFJ=13THENPOKEQ,2:POKEQ+C,2:GOSUB2000:Q=Q-65:GOTO750

IFJ=29THENPOKEQ,2:POKEQ+C,2:GOSUB2000:Q=Q+67
   279 REM***BOX***
                                                                                                                                    795
   280 DATA255,224,220,186,6,117,115,7
289 REM***CHOPPER***
                                                                                                                                    710
                                                                                                                                    720
                                                                                                                                    730
   290 DATA255,128,247,227,221,221,227,221
  299 REM***THE BEBE***
300 DATA195,129,102,102,102,129,195,153
                                                                                                                                    740
                                                                                                                                    750
755
                                                                                                                                                IFQ=B(1)ORQ=B(2)THEN3000
   309 REM***HAMMER***
                                                                                                                                               IFPEEK(Q+22)=6THENSC=SC+10:LB=LB+1:POKEQ+22,1:POKEQ+22+C,2
                                                                                                                                    760 POKEQ,0:POKEQ+C,2
770 IFPEEK(Q-22)<>4THEN3000
   310 DATA0,0,0,0,231,231,231
  319 REM***FIRE BALL***
320 DATA247,231,219,181,182,170,213,227
                                                                                                                                    770
779
                                                                                                                                               REM***MOVE NASTIES***
                                                                                                                                    780 FORZ=1T02
   329 REM***ROBOT***
                                                                                                                                               X=INT(RND(1)*2)+1
   330 DATA193,162,182,213,193,162,162,247
                                                                                                                                    800
                                                                                                                                   810 IFX=1THENPOKEB(Z),2:POKEB(Z)+C,2:GOSUB2000:B(Z)=B(Z)+65
820 IFX=2THENPOKEB(Z),2:POKEB(Z)+C,2:GOSUB2000:B(Z)=B(Z)+67
830 POKEB(Z),E(Z):POKEB(Z)+C,2
840 IFB(Z)=QTHEN3000
   339 REM***BUG***
  340 DATA255,219,129,102,66,66,129,219
349 REM***THE SHWARZ***
350 DATA195,129,102,36,66,102,126,60
   359 REM***THE ECKY***
                                                                                                                                   850
                                                                                                                                                IFB(Z))8120THENPOKEB(Z),32:B(Z)=7756
                                                                                                                                   855 NEXTZ
  360 DATA153,0,102,0,153,60,153,195
  369 REM***STOOGE***
                                                                                                                                   889
                                                                                                                                               FORX=1TOG: NEXTX
  370 DATA195,165,165,129,129,165,189,60
                                                                                                                                   889 REM***SELECT NASTIES***
  399 REM***CREDITS***
                                                                                                                                   900
                                                                                                                                               IFLB=21THENE(1)=E(1)+1:E(2)=E(2)+1:G=G-10:LB=0:GOTO100
  400 DATA19,44,68,68,64,64,65,65
                                                                                                                                   910 IFE(1)=28THENGOTO3170
  410 DATA0,128,131,132,132,130,48,48
                                                                                                                                   970 GOTO600
 1999 REM***TONES***
                                                                                                                                   2000 POKES2,200
2010 FORT=1T010:NEXTT
440 DATA0,19,42,74,75,74,82,34
450 DATA0,188,16,16,144,19,19,16
460 DATA60,126,231,195,195,224,112,56
470 DATA28,14,7,195,195,231,126,60
480 DATA30,63,115,96,96,115,63,30
490 DATA55,63,189,176,176,176,48,48
510 DATA7,143,156,31,31,28,15,7
520 DATA128,192,224,224,224,0,192,192
530 DATA243,243,97,127,127,97,243,243
540 DATA207,207,134,134,134,134,207,207
550 DATA191,159,207,68,36,12,6,3
590 DATA0,30,18,54,38,38,38,62
                                                                                                                                   2030 POKES2,160:POKES1,160
                                                                                                                                    2040 FORT=1TO5:NEXTT
                                                                                                                                   2050 POKES1,0:POKES2,0
                                                                                                                                   2060 RETURN
                                                                                                                                   2999 REM***END OF GAME***
                                                                                                                                   3000 FORT=1T015
                                                                                                                                   3010 FORN=8T09
                                                                                                                                   3020 POKES2,0:POKES1,200
                                                                                                                                                 POKEQ, N
                                                                                                                                   3030
                                                                                                                                   3035
                                                                                                                                                 FORP=1T050:NEXTP
                                                                                                                                   3040 POKES1,0:POKES2,160
                                                                                                                                    3050 NEXTN
                                                                                                                                    3060 NEXTT
 590 DATA0,30,18,54,38,38,38,62
600 DATA0,4,12,12,12,12,12
                                                                                                                                   3070 POKES1,0:POKES2,0
                                                                                                                                   3080 M=M-1:IFM=0THEN3100
                                                                                                                                   3085 IFPEEK(Q-22)=4THENPOKEQ,2:POKEQ+C,2:POKEB(1),2:POKEB(1)+C,2
 610 DATA0,60,4,12,28,48,48,60
 620 DATA0,60,4,12,60,12,12,60
                                                                                                                                   POKEB(2),2:POKE B(2)+C,2:GOTO280
 630 DATA0,36,36,44,60,12,12,12
                                                                                                                                   3090 POKEQ,32:POKEB(1),2:POKEB(1)+C,2:POKEB(2),2:POKEB(2)+C,
630 DATA0,36,36,44,60,12,12,12
640 DATA0,60,32,48,60,12,12,60
650 DATA0,60,32,48,60,52,52,50,60
660 DATA0,60,36,44,60,52,52,50,60
670 DATA0,60,36,44,60,12,12,60
680 DATA0,60,36,44,60,12,12,60
690 DATA252,246,226,67,65,192,96,48
700 DATA60,102,66,66,82,78,102,61
710 DATA0,206,168,204,168,206,0,128
720 DATA0,206,164,196,164,164,0,0
730 DATA0,204,230,127,63,6,12,24
800 DATA192,224,240,120,56,56,184,252
                                                                                                                                    2:G0T0280
                                                                                                                                                                                                       3190 PRINT"SIGNISTER ENDER TO THE TENT OF THE TENT OF
                                                                                                                                   3100 FORD=1T07
                                                                                                                                                                                                       3200 PRINT" STATE OF THE PROPERTY OF THE PROPE
                                                                                                                                   3110 READS, U
                                                                                                                                                                                                       3300 PRINT" SEEDELE COMPANDADADADADA SEVE
                                                                                                                                    3120 POKE36876,S
                                                                                                                                                                                                       3400 POKE198,0:WAIT198,1
                                                                                                                                   3130 FORF=1TOU*50
                                                                                                                                                                                                       3510 PRINT"SCICLOS DE DE DE DE DE DE DE LES COMES DE LA COMES DEL COMES DE LA COMES DEL COMES DE LA CO
                                                                                                                                    3140 NEXTF
                                                                                                                                   3150 NEXTD
                                                                                                                                   3160 POKE36876,0
                                                                                                                                                                                                       3540 GOTO10
                                                                                                                                   3170 RESTORE
                                                                                                                                                                                                       3599 REM***DATA FOR TUNE***
                                                                                                                                    3180 ifSC>HITHENHI≔SC
                                                                                                                                                                                                      3600 DATA225,4,215,2,215,2,219,4,215,8,
```

223,4,225,4

This game for the unexpanded VIC 20 casts you as a small round furry character from the planet Alpha Centuri (called Kubert, or Bert to his friends). Bert just happens to be jumping around a pyramid, for no apparent reason. You score points for each hexagon of the pyramid that you jump on. When all the hexes have been covered a new pyramid appears.

If all this sounds easy — you're in for a shock! There are snakes slithering and balls bouncing around the pyramid all trying to harm you. Also if you fall off the pyramid you die. You have five lives to play with (remember you are from Alpha Centuri, and small round furry things have

five lives there).

Controls

Q: Left and up

P: Right and up

Z: Left and down

,: Right and down

Space pauses the game.

When typing in this game, type in program one first and save it on tape, then type in and save program two. To run the program load and run the first program. The hi-res graphics will then set up and the second program will be loaded automatically.

RUNdown

The program is divided into two parts in order to fit into an unexpanded VIC. The first program defines the high resolution graphics and is self explanatory. The second program is as follows.

Line	Action
5-70 100-560	Initialize variables. Print out the pyramid
600-610	and credits. Print score and men left
700-770	at the top of the screen. Move Bert and check if he has jumped off the
780-880	pyramid or hit a nasty. Move nasties and check
900-910	their position. Check if all the dots have been collected.
2000-2060 3000-3540	Tones for movement. End of game/Play
3600	tune/Wait for key to be pressed. DATA for tune.

Variables Used

HI LB	Hi-score. Number of dots col-
SC	lected. Score.
M	Men left.
E(1) and E(2)	Characters for nasties.
S1	Voice one.
S2	Voice two.
C	Colour.
B(1) and B(2)	Position of nasties.
J	PEEK for key pressed.
Q	Position for Bert.
G	Counter variable.

Conversion Clues

Here is a list of memory locations and their functions featured on the VIC. Other computers will have Basic words to cover these features.



each channel).

UDGs.

Memory locations for

298.1

52-56

Alter HIMEM/RAM-

TOP.

7168--

7679

Summer holidays are over again; the nights are drawing in - soon it will be winter. So to cheer you up here is Lou and Les's special back to school issue of the puzzle page. No talking at the back there. Pay attention

1. THAT'LL TEACH YOU

Back in Falkovia (hurray!), the cruel Duke Bootylace was engaged in tax collection again - needed to finance his shark pools, snake pits and his other hobbies. Those who couldn't or wouldn't pay were summoned to the castle, where a terrible punishment awaited them.

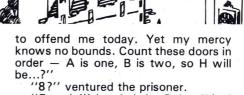
This time though the crowd was enormous and the Duke was at a loss as to how to dispose of them all. Perhaps Tell, his trusty adviser could help. "Tell Tell to come here." he bellowed, and the call was repeated like an echo down the long dark corridors of the castle. Tell raced to answer the summons Falkovia no one is indispensible.

"Tell me, Tell, how do I clear the backlog of prisoners?" Tell thought, and finally came up with an ingenious solution - which the Duke couldn't

wait to try out.

There were now 1247 prisoners outside, thronging the courtyard. The latest arrival was called in, and taken to the specially prepared dungeon. Before the quaking tax avoider were 8 doors, maked A-H.

"Pay close attention, dog." growled the Duke. "You are the 1247th person



"Exactly!" howled the Duke. "And if you carry on counting back then G will be 9, F,10 and back to A which will be 15. Yes?"
"Err, yes."

"And reversing again, B will be 16 and so on. Now if you carry on counting to 1247 and open that door, you can walk out a free man. Inside the other 7, by the way, lurks a lingering death. So start counting." The Duke left, turning only to say" By the way, you have one minute.

Now about here we usually say the bloke worked it all and got away. Well this one panicked, opened a door at random and met a horrible and slow end. If it had been you, would you have fared

better?



















Two contributions this time from Neil

Fairclough of Wigan;

'The rungs on a ladder hung from the side of a ship are one foot apart. Three hours before high tide the bottom two rungs are under water. The tide rises 16" per hour. How many rungs per hour. How many rungs are under water at high tide?"
"Every morning on his way to work a

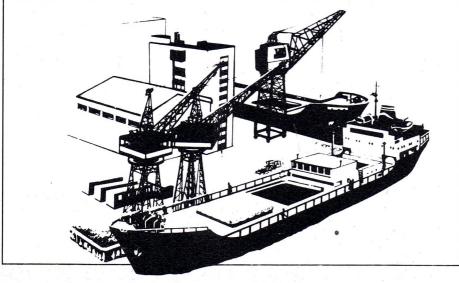
man gets the elevator from the 14th floor of his apartment block to the basement garage. When he gets home he takes the elevator to the 7th floor and walks up to his flat. Why does he do this, and what is his job?

And, from R.J. Marratt of Wolverhampton;

Can you find a number 34 less than its square?

Can you find a number 1/4 more than its square?

Our thanks again for being able to sit this one out. More prizes are racing from the puzzle page to the deserving few. It's not too late to join this most exclusive of clubs - the GOLL Club Guest of Lou and Les.





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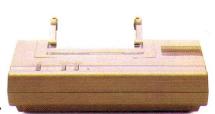
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Warning: these gar



nes show no mercy.

Acornsoft have now unleashed eight more merciless games onto unsuspecting BBC micro owners.

Ranging from 'Gateway to Karos', where putting a foot wrong could mean instant death. To the relentless antics of Drogna which could have you dying with laughter.

Gateway to Karos.

An adventure game in which you'll need all your patience and ingenuity just to stay alive. Your objective is to find the Talisman of Khoronz but, whichever path you choose, you'll be beset by treachery. Serpents lie in wait and magical phenomenona are in abundance. Should you find the Talisman, you've still to find your way back.

Kingdom of Hamil.

As the rightful heir to the Kingdom of Hamil, you are in the unusual position of having to prove your claim to the throne. Evil people are trying to prevent you accomplishing your task by any means. An adventure game fraught with many dangers, puzzles and problems.

Tetrapod.

You're in an arena littered with dormant lizards, killer bees and other hostile creatures with whom you'll have to do battle to survive. But beware of your own laser bullets, as they bounce off the arena walls.

Drogna.

A game for two people – preferably with devious minds. There are two vaults containing diamonds and your job is to collect and transfer them to your home base. While your opponent is out collecting you could sneak in and steal his loot . . . but keep an eye out for him doing the same to you.

Crazy Tracer.

An arcade style game where you're in charge of a paint roller. Guide your roller around a maze of rectangles while evading monsters who are committed to destroying it. Gain extra rollers and bonus points by painting different objects. But you'll have to avoid running out of paint.

Volcano.

Mount Crona has erupted after 150 years of silence. And your mission as an Emergency Rescue Helicopter Pilot is to save sightseers stranded on the slopes. Time is of the essence as the lava approaches the sightseers. But you'll have to take time to evade – or shoot—the boulders being hurled from the volcano.

Carousel.

A re-creation of the fairground shooting gallery – with a difference. Shoot down all the ducks, owls and rabbits before you run out of ammunition. Watch out for the low-flying ducks. If you fail to shoot these, they'll steal your bullets and reduce your chances of success.

Meteor Mission.

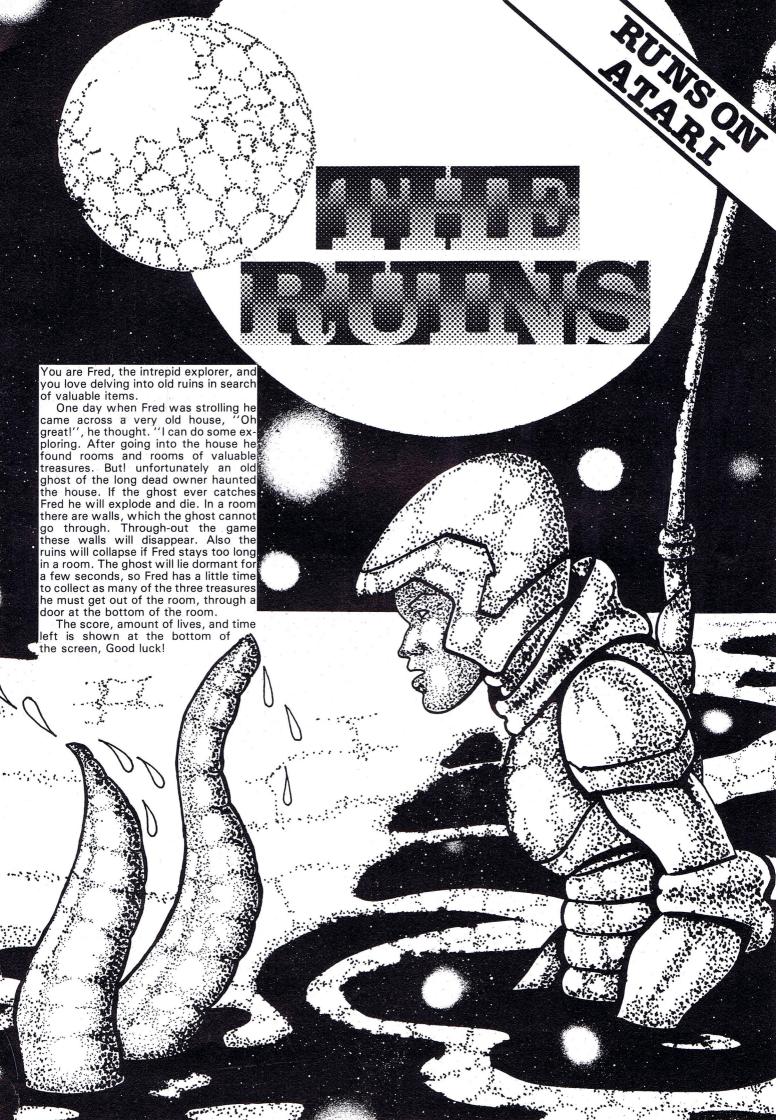
On an alien planet are six stranded astronauts. Launch your capsule from the Mothership and by avoiding – or shooting – meteors and alien craft, pick up the astronauts one at a time and return them to the Mothership.

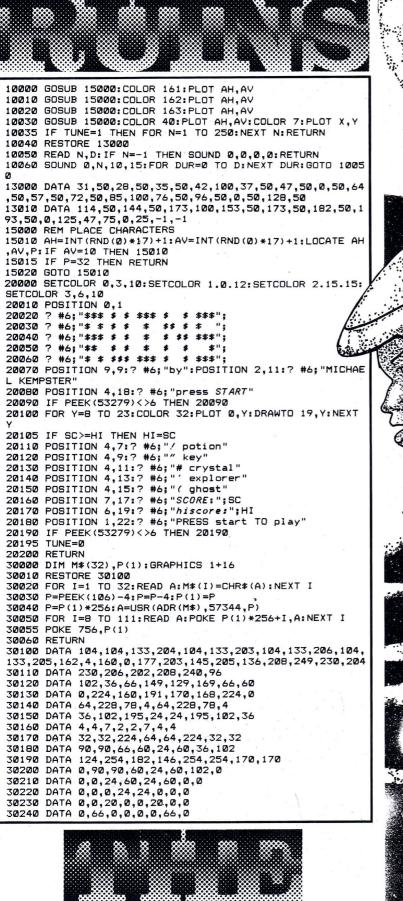
All games – with the exception of Gateway to Karos which is currently only available on cassette – can be bought direct in either cassette or disc form. You will find all these programs at your local Acorn stockist. To find out where they are simply call 01-200 0200. Credit card holders, phone 01-200 0200, anytime. Or 0933 79300, during office hours.

Alternatively, you can order the games by sending off the coupon below to: Acornsoft, c/o Vector Marketing, Denington Estate, Wellingborough, Northants NN8 2RL. Please allow 28 days for delivery.

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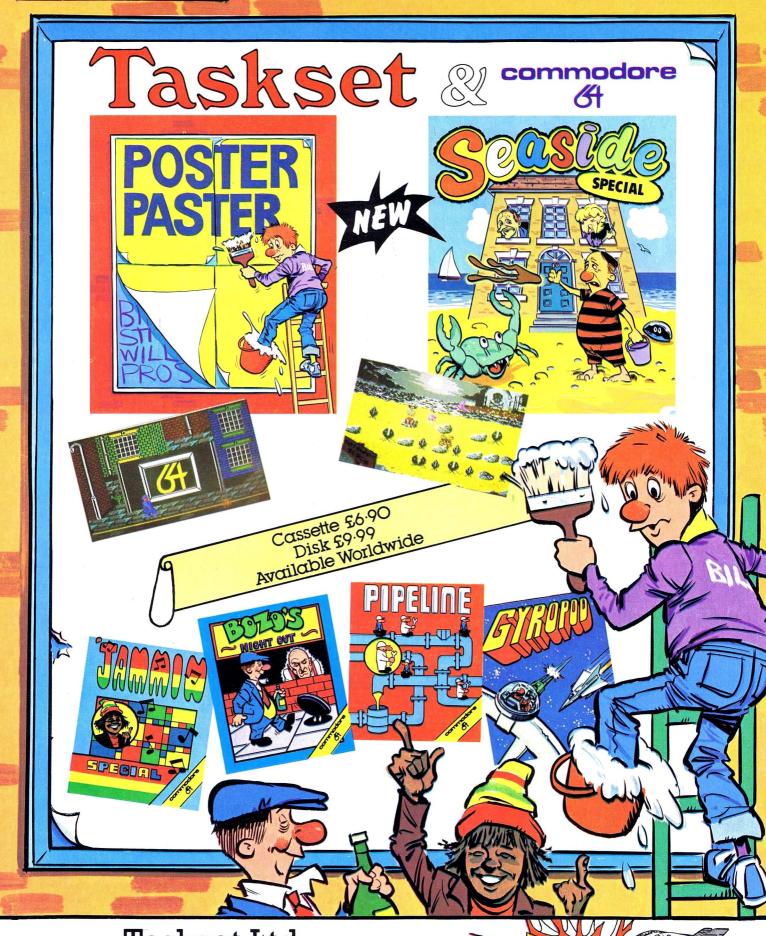
```
REM RUIN by Michael Kemnster
10 GOSUB 30000: REM REDEFINE
20 GOSUB 20000: REM TITLE SCREENS
25 REM SET UP IMPORTANT VARIABLES
30 LI=3:SK=1:AS=0.5:SC=0
40 X=10:Y=10:TI=100:TR1=0:TR2=0:TR3=0
45 POSITION 0,0:PRINT #6; CHR$(125):REM DRAW SCREEN
50 COLOR 132:PLOT 7,19:DRAWTO 0,19:DRAWTO 0,0:DRAWTO 19
,0:DRAWTO 19,19:DRAWTO 12,19:COLOR 166:PLOT 8,19
55 COLOR 165:PLOT 11,19:COLOR 4
60 IF SK<3 THEN PLOT 2,5:DRAWTO 2,7:DRAWTO 4,7:PLOT 17,
5: DRAWTO 17,7: DRAWTO 15,7: PLOT 4,12: DRAWTO 2,12: DRAWTO
  IF SK<3 THEN PLOT 15,12:DRAWTO 17,12:DRAWTO 17,14
70 IF SK<6 THEN PLOT 7,8:DRAWTO 7,11
80 IF SK<9 THEN PLOT 12,8:DRAWTO 12,11
90 COLOR 132:PLOT 5,4:DRAWTO 14,4:PLOT 5,15:DRAWTO 14,1
95 GOSUB 10000
100 COLOR 7:PLOT X,Y:COLOR 40:PLOT AH,AV
105 POSITION 6,21:? #6;"TIME:";INT(TI);" "
107 POSITION 0,23:? #6;"SCORE:";SC:POSITION 14,23:? #6;
"men:":LI
110 S=STICK(0): IF TI<1 THEN 3000
120 IF S=14 THEN GOSUB 990:Y=Y-1
130 IF S=13 THEN GOSUB 990:Y=Y+1
140 IF S=11 THEN GOSUB 990:X=X-1
150 IF S=7 THEN GOSUB 990: X=X+1
153 IF TI>90 THEN FOR N=1 TO 15:NEXT N:GOTO 200
155 COLOR 32: PLOT AH.AV
160 IF AHXX THEN LOCATE AH+AS, AV, P: IF P=32 OR P=7 THEN
AH=AH+AS:GOTO 180
170 IF AH>X THEN LOCATE AH-AS, AV, P: IF P=32 OR P=7 THEN
AH=AH-AS
180 IF AVKY THEN LOCATE AH, AV+AS, P: IF P=32 OR P=7 THEN
AV=AV+AS: GOTO 200
190 IF AV>Y THEN LOCATE AH, AV-AS, P: IF P=32 OR P=7 THEN
AV=AV-AS
195 IF X=AH AND Y=AV THEN GOTO 3000
200 SETCOLOR 2, X, 15: SOUND 1, TI, 10, 15: SOUND 0, 0, 0, 0: SOUN
 1.0.0.0
205 LOCATE AH, AV, P: IF P=7 THEN GOTO 3000
210 TI=TI-0.5: SETCOLOR 2, X, 15
220 IF Y=19 AND TR1=1 AND TR2=1 AND TR3=1 THEN GOTO 200
Ø
225 IF Y=19 THEN 3000
230 LOCATE X,Y,P:IF P=32 THEN 100
240 IF P=161 OR P=162 OR P=163 THEN 1000
250 IF P=132 OR P=4 THEN 3000
270 GOTO 100
990 COLOR 32:PLOT X,Y:SOUND 1,91,10,10:RETURN
1000 REM TREASURES
1010 IF P=161 THEN TR1=1:SC=SC+10*SK
1020 IF P=162 THEN TR2=1:SC=SC+10*INT(RND(0)*10)
1030 IF P=163 THEN TR3=1:SC=SC+10*SK
1040 RESTORE 1500
1050 FOR NOTES=1 TO 6: READ N, D: SOUND 0, N, 10, 15: FOR DUR=
1 TO D:NEXT DUR:NEXT NOTES
1060 GOTO 100
1500 DATA 81,50,91,50,68,50,60,25,45,25,53,100
2000
     ? #6; CHR$ (125)
2005 SOUND 0,0,0,0:SOUND 1,0,0,0
2010 POSITION 5,2:? #6; "tresure is"
2020 POSITION 0,10
2030 ? #6; "$$$ $$$ $
$ $ $ $ $ $$ $ $$
                      $ $ $ $ $ $ $ $ $$
2040 POSITION 2,19:? #6; "PREPARE FOR RUIN"
2050 SK=SK+1: AS=AS+0.1: IF AS>1 THEN AS=1
2055 TUNE=1
2060 FOR N=1 TO 500:NEXT N
2070 RESTORE 2500
2080 READ N: IF N=-1 THEN SOUND 0,0,0,0:GOTO 40
2090 SOUND 0,N,10,10:FOR D=1 TO 200:NEXT D:GOTO 2080
2500 DATA 81,72,91,144,123,-1,-1
3000 REM DEAD OR ALIVE
3010 TUNE=1
3020 REM DEAD
3030 COLOR 169: PLOT X, Y: SOUND 0,255,10,15: FOR N=1 TO 10
Ø: NEXT N
3040 COLOR 170:PLOT X,Y:SOUND 0,250,10,15:FOR N=1 TO 10
Ø:NEXT N
3050 COLOR 171:PLOT X,Y:SOUND 0,245,10,15:FOR N=1 TO 10
D: NEXT N
3060 COLOR 172:PLOT X,Y:SOUND 0,200,8,10:FOR N=1 TO 75:
NEXT N
3070 COLOR 173:PLOT X,Y:SOUND 0,180,8,6:FOR N=1 TO 75:N
EXT N:SOUND 0,0,0,0
3080 LI=LI-1:IF LI<1 THEN GOTO 3500
3090 FOR N=1 TO 400:NEXT N:? #6;CHR$(125):GOTO 40
3500 ? #6; CHR$ (125)
3510 POSITION 2,10:? #6; "BAD LUCK youre": POSITION 8,12:
? #6: "dead"
3520 FOR N=1 TO 400:NEXT N:? #6;CHR$(125)
3530 GOTO 20
```







HIGH STREET



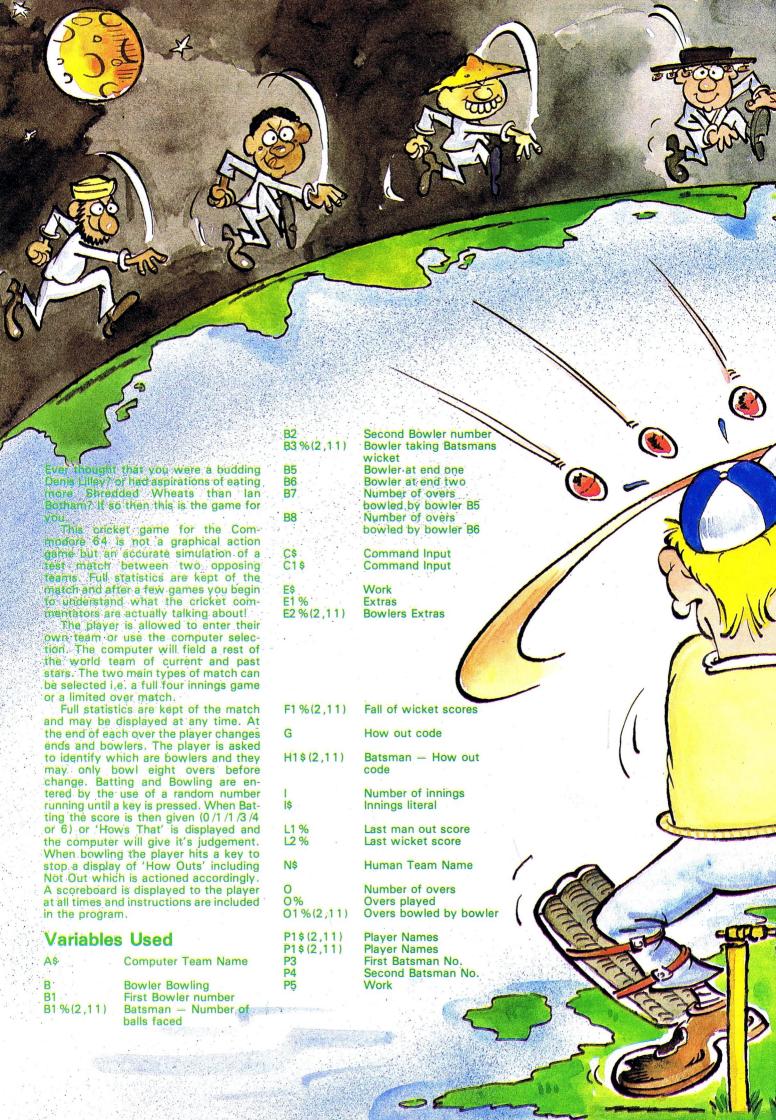
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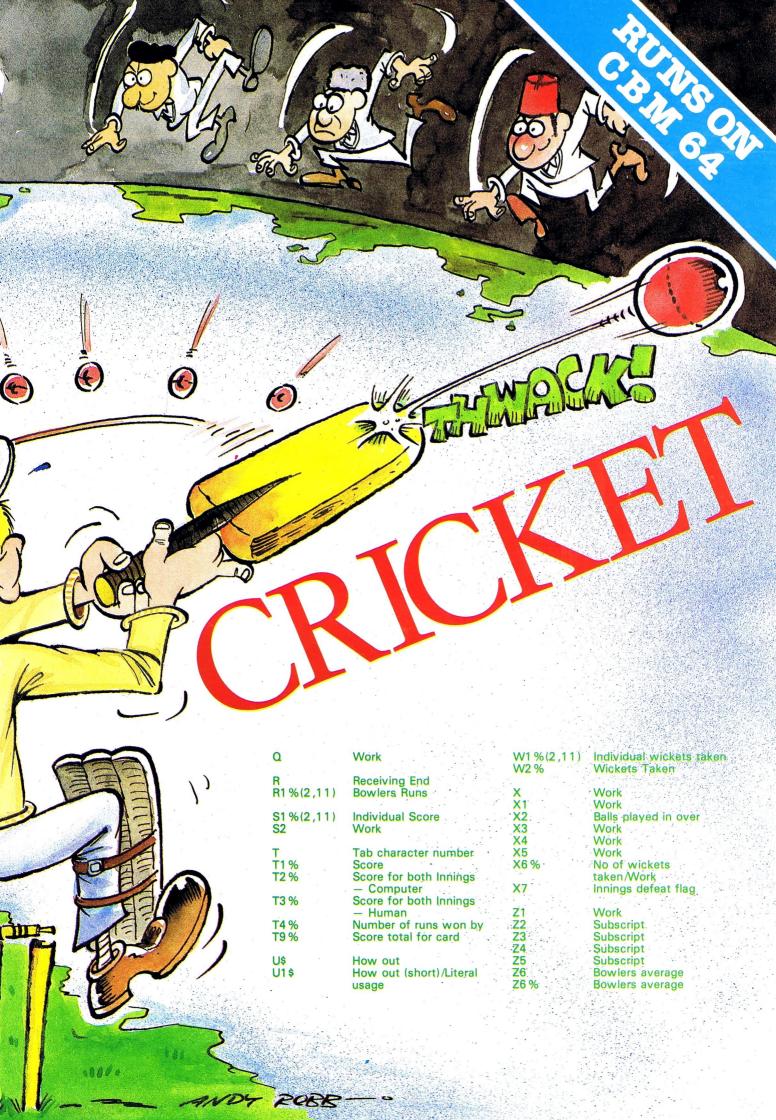
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570 GOSUB5390
580 A\$="REST OF THE WORLD XI"
590 I\$=" 1ST INN"
600 REM - START OF GAME
610 PRINT"D"
620 PRINT"DD YOU WISH TO ENTER YOUR OWN"
630 PRINT"OPPOSING TEAM (Y/N)"
640 GETC\$: IFC\$=""THEN640
650 IFC\$<"Y"THEN710
660 IFC\$<\""THEN710
670 FORZ1=1T011
680 READP1\$(2,Z1)
690 NEXTZ1 690 NEXTZ1 700 GOTO780 710 PRINT"3" 720 PRINT"ENTER YOUR OPPOSING TEAMXXX 730 FORZ1=1T011 740 PRINTZ1". " INPUTP1\$(2,Z1) NEXTZ1 750 760 770 760 NEXTZ1
770 INPUT"XXXTEAM NAME? ";A\$
770 INPUT"XXXTEAM NAME? ";A\$
780 PRINT"DO YOU WISH TO BAT FIRST (Y/N)"
800 GETC\$: IFC\$=""THEN800
810 IFC\$="Y"THENZ2=1:GOTO840
820 IFC\$="N"THENZ2=2:GOTO840
830 GOTO780
840 PRINT"XXX 840 PRINT"MUMMENTER YOUR TEHMS NAME:-")
850 INPUTN\$
860 N\$=N\$+" XI"
870 PRINT"MUMDO YOU REQUIRE LIMITED OVER GAME (Y/N)"
880 GETC\$::TC\$=""THEN880
890 IFC\$="Y"THEN970
900 IFC\$()"N"THEN870
910 PRINT"MUMHOW MANY INNINGS (1/2)"
920 GETC\$:IFC\$=""THEN920
930 I=VAL(C\$)
940 IFIX20DIC(1THEN910 IFID20RIC1THEN910 950 0≈0 950 6-6 960 GOTO1000 970 INPUT"ЖИНОМ MANY OVERS (1-60)";О IFO>600RO<1THEN970 990 1=0 990 I=0
1000 PRINT"D"
1010 PRINT"ENTER YOUR TEAMMON"
1020 FORZ1=17011
1030 PRINTZ1". ";
1040 INPUT" INT";P1\$(1,Z1)
1050 NEXTZ1
1060 P3=1:P4=2:R=1:B5=9:B6=10:B=1:P5=2:S2=0:X2=0
1070 IFZ2=17HEN1110 1080 PRINT"DENTER FIRST TWO BOWLERS (B1,B2)"

INPUTB5, B6 1100 IFB5<00RB5>110RB6<00RB6>11THEN1070 1110 IFX2=6THEN2980 1120 E\$="N":IFT2X=00RT3X=0THEN1190 1130 IFX4<>3THEN1190 1140 IFZ2=1THEN1170 IFT1X+T2X>T3XTHEN3520 GOT01190 IFT1%+T3%>T2%THEN3520 1160 GOTO1190 IFO=0THEN1250 IFX4<>1THEN1250 IFZ2=1THEN1240 IFT1X>T3XTHEN3520 GOTO1250 1200 1210 1220 1230 1230 GUTU1250
1240 IFT1%>T2%THEN3520
1250 X2=X2+11260 IFZ2=1THEN1290
1270 PRINT"C"A\$" - BATTING "I\$
1280 GUTU1300
1290 PRINT"C""A\$" - BATTING "I\$
1300 PRINT"C"" 1320 PRINT" | 1 1320 PRINTTHB(31)"BLS SCR" 1340 PRINT" | 1350 IFP3(10THENPRINT" "; 1350 PRINTP3;LEFT\$(P1\$(Z2,P3),25) 1370 T=0 1380 IFB1%(Z2,P3)<10THENT=2:GOTO1400 1390 IFB1%(Z2,P3)<100THENT=1:GOTO1400 1400 PRINT"O"TAB(30+T)B1%(Z2,P3) 1410 T=0 I=0 IFS1X(Z2,P3)<10THENT=2:G0T01440 IFS1X(Z2,P3)<100THENT=1:G0T01440 PRINT"J"TAB(344T)S1X(Z2,P3) PRINT"J"TAB(30)"|"TAB(34)"|" PRINT"J"TAB(30)"|"TAB(34)"|" PRINT"J"THENPRINT" "; 1439 1440 1459 1460 1479 1480 PRINTP4; LEFT\$(P1\$(Z2,P4),25) 1490 T=0 1500 IFB1X(Z2,P4)<10THENT=2:GOTO1520 IFB1X(Z2,P4)<100THENT=1:GOTO1520 PRINT"N"TAB(30+T)B1X(Z2,P4) 1510 1520 1530 T=0 1540 IFS1X(Z2,P4)<10THENT=2:GOT01560 1550 IFS1X(Z2,P4)<100THENT=1:GOT01560 1560 PRINT"O"TAB(34+T)S1X(Z2,P4) 1570 PRINT"O"TAB(30)"|"TAB(34)"|" 1580 PRINT" PRINT"

PRINT"SCORE"TAB(20)"|"TIXTAB(26)"|%SCORES:=E"

PRINT"WICKETS"TAB(20)"|"W2XTAB(26)"|"LEFT\$(A\$,10)

PRINT"LAST MAN"TAB(20)"|"L1XTAB(26)"|"T2X

PRINT"LAST WICKET"TAB(20)"|"L2XTAB(26)"|"LEFT\$(N\$,10)

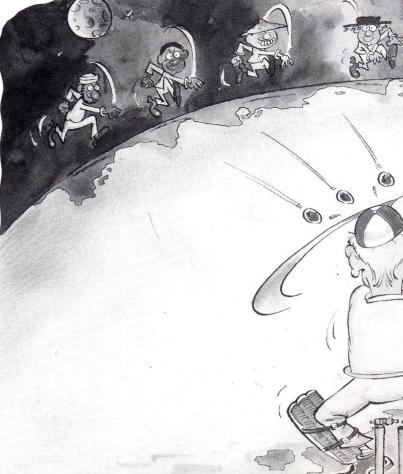
PRINT"EXTRAS*TAB(20)"|"EIXTAB(26)"|"T3X

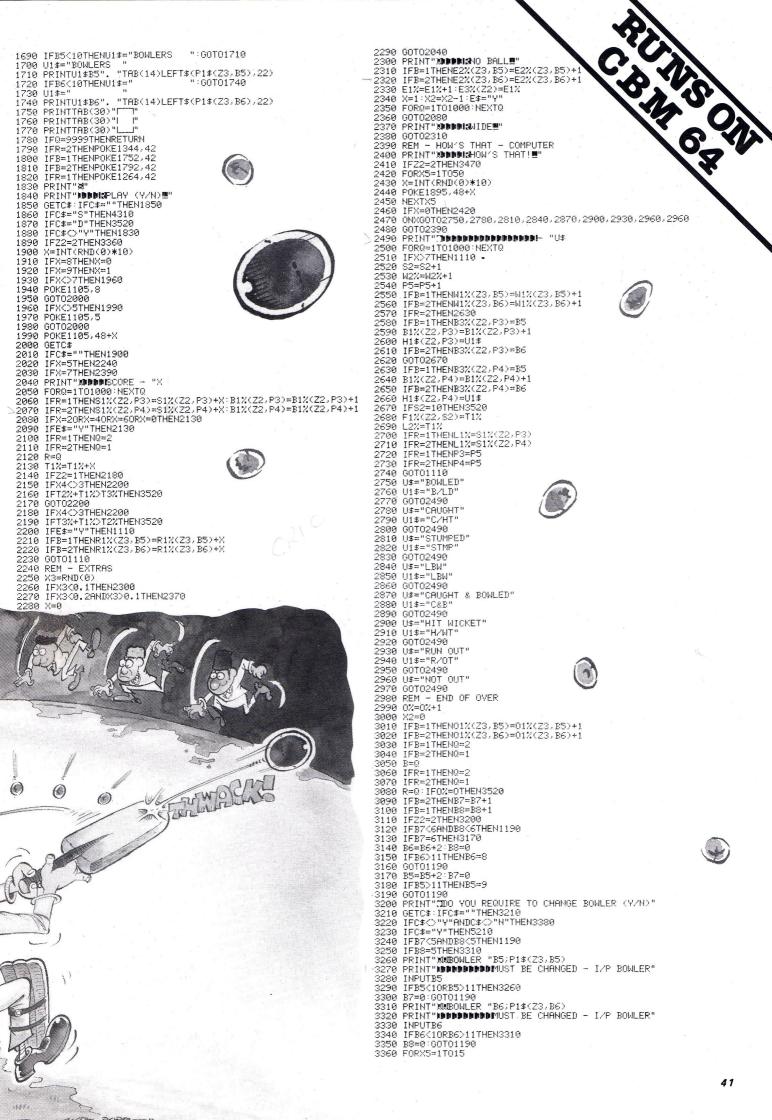
PRINT"OVERS"TAB(20)"|"OXTAB(26)"|"

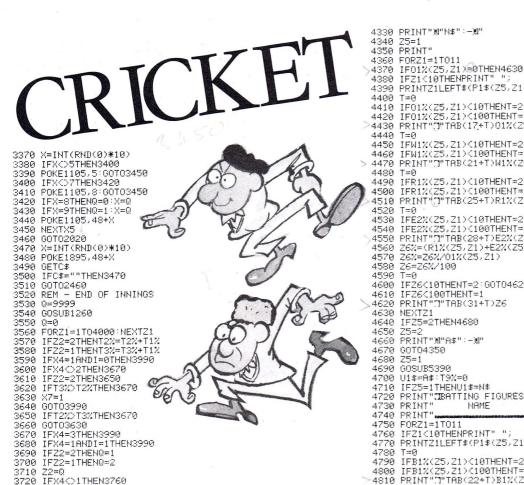
PRINT"BALLS IN OVER"TAB(20)"|"X2TAB(26)"|"

PRINT"

IFZ2=1THFN72=0 1590 1619 1639 1659 1680 FRINI 1670 IFZ2=1THENZ3=2 1680 IFZ2=2THENZ3=1







IFX4<>1THEN3760 I\$="2ND INN" 3720 3730 3740 C\$="X" G0T04310 3750 3770 W2%=0 3780 3790 L1%=0 L2%=0 3800 E1%=0 3810 0%=0 IFX4≈1THEN3850 X4=X4+1 3830 3840 GOTO1868 FORZ3=1TO2 FORZ4=1TO11 O1%(Z3,Z4)=0 W1%(Z3,Z4)=0 B1%(Z3,Z4)=0 B3%(Z3,Z4)=0 B3%(Z3,Z4)=0 F1%(Z3,Z4)=0 H1錄(Z3,Z4)=0 S1%(Z3,Z4)=0 S1%(Z3,Z4)=0 WFXT4 G0T01060 3850 3860 3870 3880 3890 3900 3910





3970 NEXTZ3 3980 GOTO3830 3990 REM - END OF MATCH 4000 PRINT"SEESULT" 4010 PRINT"SEESULT" 4020 PRINT"SEESULT" 4030 IFTZXXT3XTHEM070 4040 IETZXXT3XTHEM090 4040 IFT3%>T2%THEN4090 . 4050 PRINT"XDDDDDDDDDDREW WITH" 4080 60104100 4080 60104100 4090 PRINT"XDBDDDDDDLOST TO" 4100 PRINT"XDDD""N\$ 4110 IFT3%>T2XTHENT4X=T3X-T2X 4120 IFT2%>T3XTHENT4X=T2X-T3X 4130 IFT2X=T3XTHEN4170 4130 IFT2X=T3ZTHEN4170
4140 PRINT" COMPANDAD DETERM 1-20"
4150 IFI=2THEN4180
4160 PRINT" COMPANDAD DETERM 1-20"
4170 FORG=1T02000:NEXT0:G0T04310
4180 IFX7<>1THEN4210
4190 PRINT" COMPANDAD INDINGS AND "T4X" RUNS"
4200 FORG=1T02000:NEXT0:G0T04310
4210 IFM2X=10THEN4240
4220 PRINT" COMPANDAD DETERM 10-M2X" WICKETS"
4230 FORG=1T02000:NEXT0:G0T04310
4240 FORZ1=1T011
4250 IFH1\$=" "ORH1\$=""THEN4270
4260 X6X=X6X+1

X6X=X6X+1 4260

NEXTZ1 IFX6X=10THEN4160 4280

4280 IFX6X=101HEN4160 4290 W2X=X6X 4300 GOT04220 4310 REM - STATISTICS 4320 PRINT",DOWLING FIGURES"



4390 PRINTZILEFT#(P1#(Z5,Z1),14) 4410 IF01X(25,21)<10THENT=2:G0T04430 4420 IF01X(25,Z1)<100THENT=1 4430 PRINT"O"TAB(17,+T)01X(25,Z1) 4450 IFW1X(25,Z1)<10THENT=2:GOTO4470 4450 IFW1X(25,Z1)<100THENT=1 4470 PRINTCO"TAB(21+T)W1X(25,Z1) IFR1M(Z5,Z1)<10THENT=2:GOTO4510 IFR1M(Z5,Z1)<100THENT=1 4510 PRINT([]"TAB(25+T)R1%(25,Z1) 4520 T=0 4530 IFE2X(25,21)
4520 T=0 4530 IFE2X(25,21)
4570 IFE2X(25,21)
457 4600 IFZ6<10THENT=2:G0T04620 4690 608UB5390 4700 U1\$=R\$:T9X=0 4710 IF25=ITHENU1\$=N\$ 4720 PRINT"∭BATTING FIGURES - "U1\$ 4730 PRINT" NAME BLS BL HZOT SCR" PRINTZ1LEFT\$(P1\$(Z5,Z1),18) 4790 | FB1%(25,21)<10THENT=2:GOTO4810 4800 | FB1%(25,21)<100THENT=1 4810 | PRINT"]"TAB(22+T)B1%(25,21) 4820 | FB3X(Z5,Z1)<10THENT=2:60T04850 | FB3X(Z5,Z1)<100THENT=1 | PRINT"D"TAB(25+T)B3X(Z5,Z1) 4839 4850 C1\$=H1\$(Z5,Z1) IFC1\$=""THEN4890 G0T04920 4860 4870 4880 IFQ>1THEN4920 Q=Q+1 C1\$="\$N/0豐" PRINT"\""TAB(30)C1\$ 4890 4900 4910 4920 T=0
IFS1%(Z5,Z1)<10THENT=2:GOT04960
IFS1%(Z5,Z1)<100THENT=1
PRINT")"TAB(34+T)S1%(Z5,Z1)
T9%=S1%(Z5,Z1)+T9%
NEXTZ1 4930 4940 4950 4960 4970 4980 4990 T=0 4990 |=0 5000 | FE1X<10THENT=2:60T05020 5010 | FE1X<100THENT=1 5020 | PRINT"N | EXTRAS"T 5030 | T9X=T9X+E3X(Z5) | EXTRAS"TAB(34+T)E3%(Z5) 5050 T=0
5060 IFT9%(10THENT=2:GOT05080
5070 IFT9%(10THENT=1
5080 PRINTTAB(27)"TOTAL "TAB(34+T)T9%
5090 PRINT"FALL OF WICKETS:-"TAB(35)"
5100 FORZI=1T09 CKINIC.7 GOSUB5390 IFC\$="\$"ANDZ5=2THENX2=X2-1:GOT01110 IFC\$="X"ANDZ5=2THEN3760 IFZ5=2THENPRINT"□":END Z5=2 5200 5210 \$200 GOTO4700 \$210 REM - CHANGE BOWLER
\$220 PRINT""

\$230 PRINT"BOWLER ONE:-"
\$240 PRINT"BOWLER ONE:-"
\$250 PRINT"BOWLER ONE:-"
\$250 PRINT"BOWLER ONE:-"
\$250 PRINT"BOWLER ONE:-"
\$250 PRINT"BOWLER ONE:-"
\$260 PRINT"BOWLER ONE:-"
\$270 B7=0::FC\$=""THEN5360 5270 5280 INPUT"XBOWLER NO."; B5 INPUT "MBONLER NO."; B5
IFB5(10RB5)11THEN5220
FRINT "MBONLER TMO:-"
PRINT "M"B6; P1\$(Z3, B6)
PRINT "MCHANGE (Y/N)"
GETC\$: IFC\$=""THEN5330
IFC\$="N"THEN3240
INPUT "MBONLER NO."; B6 5299 5300 5310 5339 5350 5360 5370 5380 IFB6<10RB6>11THEN5300 B8=0 5380 GOTO3240 5380 GOTO3240 5390 PRINT"∭M#PRESS ANY KEY" 5400 GETC1≴:IFC1≸=""THEN5400 5410 RETURN

W R E AVG'

NG OCTOBER 1984

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3960 NEXTZ4 3970 NEXTZ3 Remember the top selling 'Jack and the Beanstalk' from Thor software? Well all you Commodore 64 owners out there have the chance to win a copy of this great game as Games Computing in conjunction with Thor are giving them away as prizes.

Spectrum, BBC, and VIC 20 owners are not left out either - two other great Thor games are up for grabs, The Giant's Revenge for the Spectrum, and Ollie for

the VIC 20.

90 tapes can be won and these games are the latest and greatest when it comes to new software.

Jack and the Beanstalk is the best selling graphics adventure for the Spectrum that got to number 1 in most charts, it has now been converted for the Commodore 64 and the result is really impressive. The idea of the game is to travel through six hi-res screens to try and chop the giant for good.

Gaints Revenge is the sequel to Jack and the Beanstalk and runs on a Spectrum. In this game the giant has landed on the ground and dug himself some caves and caverns. Your task is to dig him out and finish him off once and for

Ollie for the VIC 20 casts you as a diver after some pearls - of course Ollie the octopus doesn't want you to get them. You'll need cunning and agility to get around this game.

Also you may choose any game from Thor's current range for the BBC, VIC, Spectrum, or Commodore 64.

Thor is relatively new on the software scene having only been in operation since last Christmas. In that time they have made their mark with games such as Twilight Zone, Night Stalker, and Gremlins. All these you can win.

How to Enter

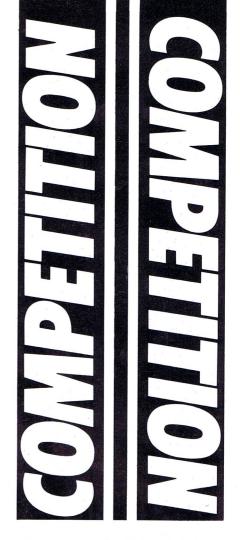
On this page is a wordsquare grid and a list of Thor products. All you have to do is ring the names of the games When you have ringed the names there should be some letters left - this forms a sentence and some letters. Write this on the back of the envelope with your entry in and write it in the area reserved for it on the coupon.

When you fill in the coupon don't forget to state your name, address, telephone number, and age. We also need to know what computer and what game you want. The game can be selected from any in the list for the wordsquare. Put the coupon and the completed wordsquare in an envelope and send it to us - simple!

Next to the list for the wordsquare is a list of machines that the program runs on - DO NOT use the names of the computers in the wordsquare as there are none there, just the names of the games.

Send all your entries to:

Games Computing/Thor Competition 1 Golden Square London W1R 3AB



List of Words

Programs Computers they run on Jack and the Spectrum Beanstalk Commodore 64 VIC 20 Ollie Giants Revenge Spectrum Twilight Zone Spectrum Wonder Worm BBC Gremlins Spectrum Night Stalker Spectrum Love Bug VIC 20 + 3K or 8K

BBC Blocker Mega Fruit Spectrum 3D Silicon Fish VIC 20

Commodore 64

Competition Rules

- 1. This competition is open to all UK readers of Games Computing, except employees of Argus Specialist Publications Ltd, their printers and distributors, employees of Thor or anyone connected with them.
- 2. As long as the correct coupon is used for each entry there is not limit to the number of entries per person, photocopies will not be accepted.
- 3. All enries must be postmarked before 31st October.
- The prizes will be awarded to the first 90 entries judged to be correct by the editor.
- 5. No correspondence will be entered into with regard to the competition results and it is a condition of entry that the editor's decision is final.
- 6. The winners will be notified by post and the results will be published in a future issue of Games Computing.

W	G	U	В	Z	G	0	К	С	Α	J
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R	R	N	Α	G	G	Е	W	V	D	R
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Send to: GAMES COMPUTING/THOR COMPETITION 1 Golden Square, London W1R 3AB					
Computer:					
Program:					
Computer: Program: Answer: Name: Address:	 				
		* * * * * * * * * *			* * * * * * *
Telephone:				Age:	
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commodore news

from **SUPERSOFT**

NEW RELEASES

MUSIC MASTER

At last, a commonsense program for ordinary people. You needn't know anything about music (or computers)! There's no easier way to make music with your 64, and no easier way to learn about music.

GRAPHICS DESIGNER

The only all machine code sprite and character editor. Joystick or keyboard control; easy to learn, and easy to use.

BUSICALC 3

The long-awaited three-dimensional version of the famous BUSICALC program. All the features of BUSICALC and BUSICALC 2 plus bar charts, password protection, links with EASYSCRIFT & VIZAWRITE and much more. The only logical answer to three dimensions on the 64!

STAR COMMAND

Three-dimensional space combat game with convincing graphics.

INTERDICTOR PILOT

Forget ordinary flight simulators! You'll probably never pilot a jumbo — but you might well fly a spaceship. The 48-page manual describes in detail the Interdictor Mk3 craft, and teaches the basics of space combat. Learn in the simulator, then go on to fly real missions!

PESKY PAINTER

A superb adaptation of the classic Amidar game; excellent graphics (thanks to GRAPHICS DESIGNER), superb music (thanks to MUSIC MASTER).

STAR CRASH

Music by Dvorak, program by the Common Market's answer to Jeff Minter. Arcade action from France with just a hint of Star Trek.

TITLES CURRENTLY AVAILABLE

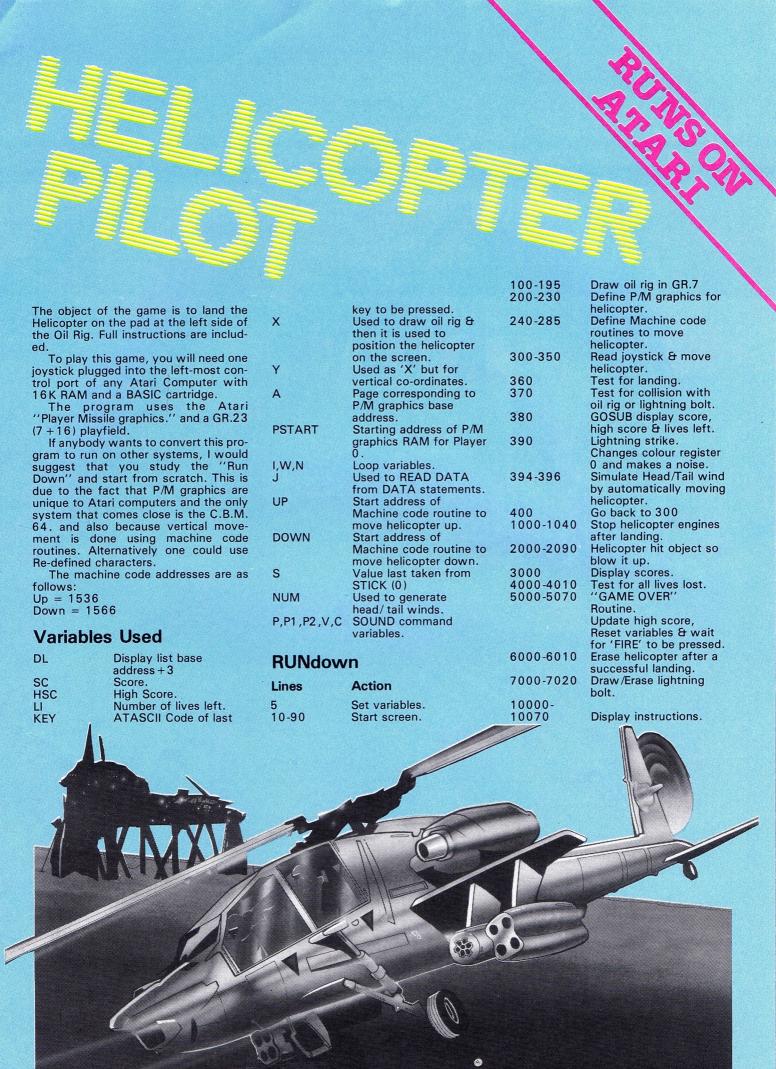
BUSICALC (*)	£17.95	INTER FILOT (*)	E17.95	STIX	(*) £8.95
BUSICALC 2 (*)	£49.95	MUSIC MASTER (*)	£17.95	STIX	(C) £19.95
BUSICALC 3 (D)	£75.00	GRAPHICS DESIGN (*)	£9.95	XERONS	3 (*) £5.95
MASTER 64 (D)	£69.00	STAR COMMAND (*)	£6.95	WILDFI	RE(*)£6.95
VICTREE (C)	£56.35	PESKY PAINTER (*)	£6.95	KAKTUS	6 (*) £8.95
MIKRO (Č)	£57.50	STAR CRASH (*)	£6.95	SPP (I)) £201.25
ARROW (C)	£44.85	HALLS OF DEATH (*)	£8.95		
ZOOM (*)	£11.50	LORD OF BALROGS(*)	£6.95		
ZOOM (C)	£28.75	CRAZY KONG (*)	£3.95	(C)	plug-in
1541 BACKUP (D)	£13.80	3D-GLOOPER (*)	£8.95		cartridge
PRINTLINK (*)	£29.90	COSMIC CAPERS (*)	£7.95		
PETLINK (*)	£36.80	CRACKS OF FIRE (*)	£7.95	(D)	disk only
TAGSORT (*)	£11.50	BURGER CHASE (*)	£6.95		
SUPERSORT (*)	£25.30	TANK ATAK (*)	£8.95	(T)	tape only
COMPACTOR (*)	£9.20	MANGROVE (*)	£8.95		
RENUMBER (*)	£8.05	STS OF LONDON (*)	£8.95	(*)	tape price
TAPE MERGE (T)	£8.05	GOBLIN TOWERS (*)	£9.95		add £2 for
GRAPHIX 64 (*)	£11.50	FORESTLAND (*)	£9.95		disk copy

Orders prepaid by cheque are post free in UK. We now accept ACCESS

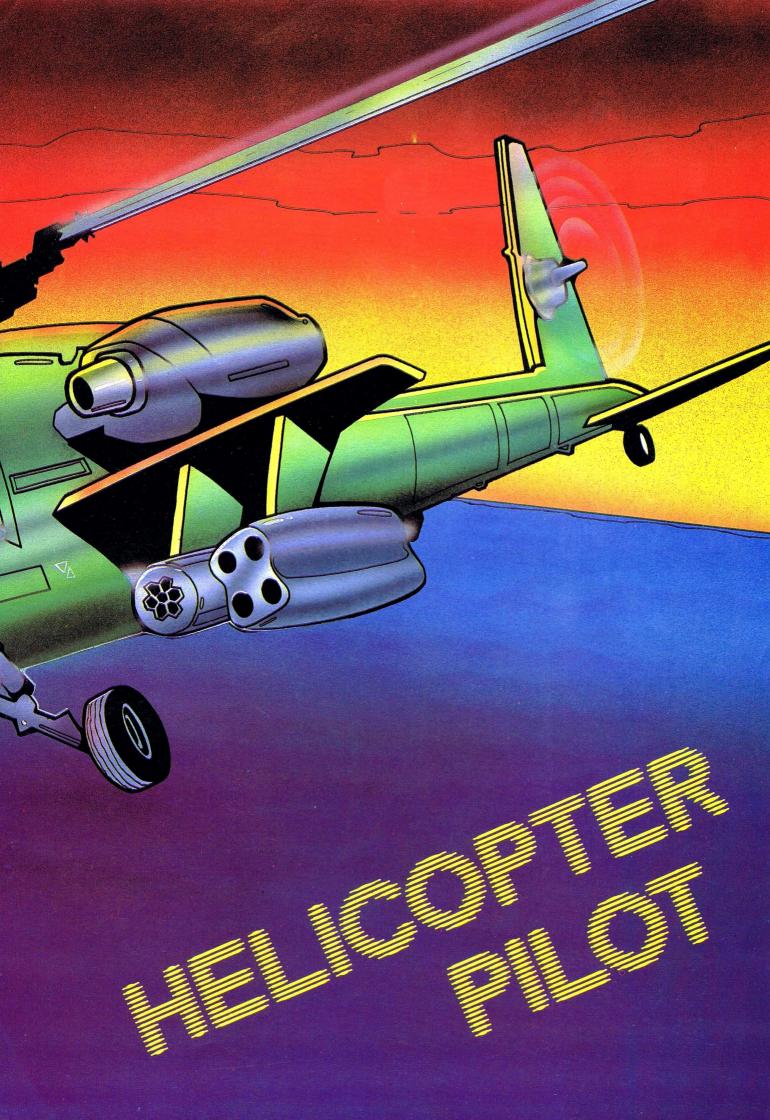


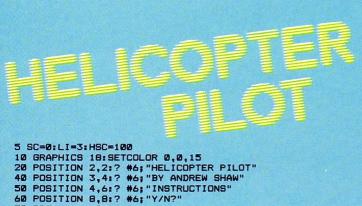
Winchester House, Canning Road, Wealdstone, Harrow, Middlesex, HA3 7SJ

Telephone: 01-861 1166









5 SC=0:LI=3:HSC=100

10 GRAPHICS 18:SETCOLOR 0,0,15

20 POSITION 2,2:? #6;"HELICOPTER PILOT"

40 POSITION 3,4:? #6;"BY ANDREW SHAW"

50 POSITION 4,6:? #6;"INSTRUCTIONS"

60 POSITION 8,8:? #6;"Y/N?"

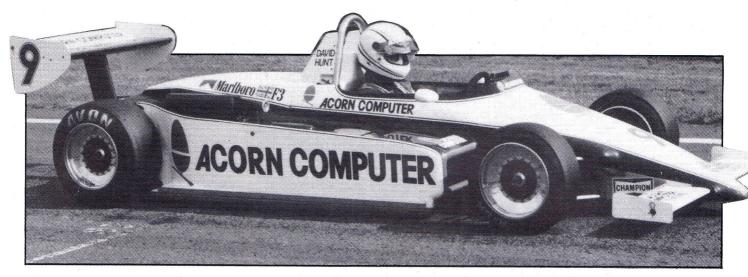
70 OPEN #1,4,0,"K"

80 GET #1,KEY:IF KEY=B9 THEN GOSUB 10000:GOTO 100

90 IE KEY</PRITHEN B0 IF KEY<>78 THEN 80 100 GRAPHICS 23:SETCOLOR 0,8,2:SETCOLOR 1,0,15:SETCOLOR 2,9,2:SETCOLOR 4,9,2:COLOR 1:POKE 752,1
105 DL=PEEK(560)+256*PEEK(561)+3:POKE DL+3,2:POKE DL,66 : POKE DL+4,2 108 GOSUB 3000 110 PLOT 80,60:DRAWTO 120,60:PLOT 80,61:DRAWTO 120,61 120 PLOT 82,60:DRAWTO 82,55:PLOT 88,60:DRAWTO 88,55:PLO T 80,55: DRAWTO 90,55 130 PLOT 82,55:DRAWTO 88,60:PLOT 82,60:DRAWTO 88,55 140 PLOT 95,60:DRAWTO 95,20:DRAWTO 105,20:DRAWTO 105,60 150 FOR X=20 TO 50 STEP 10:PLOT 95,X:DRAWTO 105,X+10:PL OT 105,X:DRAWTO 95,X+10:NEXT X 160 FOR X=107 TO 118:PLOT X,45:DRAWTO X,60:NEXT X 170 COLOR 2:FOR X=109 TO 117 STEP 2:FOR Y=48 TO 56 STEP 2:PLOT X,Y:NEXT Y:NEXT X 180 COLDR 1:FOR X=82 TO 86:PLOT X,62:DRAWTO X,80:NEXT X 190 FOR X=112 TO 116:PLOT X,62:DRAWTO X,80:NEXT X 195 COLOR 1:GOSUB 7000 200 A=PEEK(106)-32:POKE 54279,A:POKE 559,62:X=70:Y=80:P OKE 53248,0:PSTART=(A*256)+1024:POKE 53277,3:POKE 704,1 205 POKE 53256,2:POKE 53278,255:POKE 623,4
210 FOR I=PSTART-Y TO PSTART+255:POKE I,0:NEXT I
220 FOR I=PSTART+Y TO PSTART+7+Y:READ J:POKE I,J:NEXT I 230 DATA 0,28,148,214,255,126,68,255 235 FOR I=0 TO X:POKE 53248,I:SOUND 0,255,10,14:SOUND 0,0,0,0:FOR W=1 TO 10:NEXT W:NEXT I:SOUND 0,0,0,0 240 UP=1536: DOWN=UP+30 250 FOR I=UP TO UP+20:READ J:POKE I,J:NEXT I 260 DATA 104,104,133,204,104,133,203,160,1,177,203,136, 145,203,200,200,192,11,208,245,96 270 FOR I=DOWN TO DOWN+20:READ J:POKE I,J:NEXT I 280 DATA 104,104,133,204,104,133,203,160,10,177,203,200 280 DATA 104,104,133,204,104,133,203,160,10,177,203,200,145,203,136,136,192,255,208,245,96
285 SOUND 3,255,2,4
290 REM MAIN LOOP FOLLOWS
300 S=STICK(0):IF S=15 THEN 390
310 IF S=5 OR S=6 OR S=7 THEN IF X<200 THEN X=X+2
320 IF S=9 OR S=10 OR S=11 THEN IF X>50 THEN X=X-2
330 IF S=10 OR S=14 OR S=6 THEN IF Y>45 THEN FOR N=1 TO 2:Z=USR(UP,PSTART+Y):Y=Y-1:NEXT N
340 IF S=5 OR S=9 OR S=1 THEN IF Y<240 THEN FOR N=1 TO 340 IF S=5 OR S=9 OR S=13 THEN IF Y<240 THEN FOR N=1 TO 2: Z=USR(DOWN, PSTART+Y): Y=Y+1: NEXT N 350 POKE 53248,X

360 IF X>128 AND X<132 AND Y=152 THEN COLOR 0:00SUB 700 Ø:GOTO 1000 370 IF PEEK (53252) = 1 THEN GOSUB 2000 380 GOSUB 3000 370 IF RND(0)>0.9 THEN FOR 8=0 TO 30:SOUND 0,8,6,10:POK E 708,8:NEXT 8:SOUND 0,0,0,0:POKE 708,130 394 NUM=RND (0) 395 IF NUM>0.5 THEN X=X+1:POKE 53248,X 396 IF NUM<0.5 THEN X=X-1:POKE 53248,X 400 GOTO 300 1000 FOR P1=0 TO 100 STEP 25 1010 FOR P2=0 TO 50 1020 SOUND 0,P1+P2,10,10:NEXT P2:NEXT P1 1030 SOUND 0,0,0:SC=SC+100:GOSUB 3000:POKE PSTART+Y,8 :POKE PSTART+(Y-1),126 1040 POKE 704,15:SETCOLOR 0,3,6:GOTO 6000 2000 FOR N=1 TO 4 2005 FOR I=PSTART+Y TO PSTART+Y+7:POKE I,INT(RND(0)*256):POKE 704,INT(RND(0)*256) 2010 SOUND 0,255-RND(0) *254,8,14:FOR W=1 TO 10:NEXT W:N EXT I:NEXT N 2015 POKE 704,253:POKE PSTART+Y-1,0:POKE PSTART+Y,0 2020 FOR V=15 TO 0 STEP -1 2025 FOR A=1 TO 15:Z=USR(DOWN,PSTART+Y):Y=Y+1:NEXT A
2030 SOUND 0,255,4,V:FOR W=1 TO 10:NEXT W:NEXT V
2080 FOR W=1 TO 400:NEXT W
2090 GOSUB 4000:POP :RESTORE :POKE 704,PEEK(712):GOTO 1 3000 POKE 87,0:POSITION 4,1:? "SCORE:";SC;" LIVES:";LI ;" HI SCORE:";HSC;:POKE 87,7:RETURN 4000 LI=LI-1:IF LI=0 THEN GOTO 5000 4010 RETURN 5000 GRAPHICS 18:POKE 708,15:POKE 53277,0:POSITION 5,2: ? #6: "GAME OVER! ? #6; "GAME OVER!"
5005 FOR P=0 TO 3:SOUND P,0,0,0:NEXT P
5010 POSITION 5,4:? #6; "SCORE:"; SC
5020 IF SC>HSC THEN HSC=SC
5030 POSITION 4,6:? #6; "HI SCORE:"; HSC
5040 POSITION 1,8:? #6; "HI SCORE:"; HSC
5040 POSITION 1,8:? #6; "PRESS TRIG TO START"
5045 FOR W=1 TO 300:NEXT W
5050 IF STRIG(0)=1 THEN 5050
5040 IF SC>HSC THEN HSC=SC
5070 LI=3:SC=0:RESTORE :GOTO 100 6000 FOR C=0 TO 3:SOUND C,0,0,0:NEXT C:FOR W=1 TO 500:N EXT W 6010 POKE 704,PEEK(712):RESTORE :GOTO 100 7000 PLOT 50,10:DRAWTO 48,20:DRAWTO 46,30:DRAWTO 45,40 7010 REM PLOT 51,10:DRAWTO 49,20:DRAWTO 47,30:DRAWTO 46 ,40 7020 RETURN 10000 GRAPHICS 0:SETCOLOR 2,8,2:SETCOLOR 1,0,15:POKE 75 2,1 10005 ? :? "HELICPOTER PILOT" 10010 ? :? " YOU PLAY THE PA 0010 ? :? " YOU PLAY THE PART OF A HELICOPTER PILOT
YOU ARE BRINGING THE MEN; WHO WORK ON THE GIL RIG,";
0020 ? "URGENTLY NEEDED SUPLIES. ALL YOU HAVE TO DO
5 LAND YOUR HELICOPTER ON THE HELI-PAD."
0030 ? " IF IT SOUNDS TOO FACE TO TO 10030 ? " IF IT SOUNDS TOO EASY TO BELIEVE, NG SO! THERE IS AS USUAL ONE PROBLEM...."
10040 ? :? "YOU MUST LAND AT NIGHT, IN A BAD ER STORM." DONT THI THUND 10050 ? :? ,"PRESS TRIG TO START" 10060 IF STRIG(0)=1 THEN 10060 10070 RETURN





Acorn are including in one of the most

Acorn are indulging in one of the most expensive sports possible — motor racing. The annual budget is around 100,000 or 500 Electrons. That's doing it cheaply, the form of motorsport they've gone for is Formula 3, if they were into Formula 1 you could probably add a zero to those figures.

Formula 3 is very tightly controlled, the limits mean that all the cars are very similar, there are only two major choices of engines, Toyota or Volkswagen, two types of tyre, wet or dry, and many regulations regarding the weight and dimensions of the car.

The upshot of this is a race between drivers rather than a race between cars. This does not mean that a Formula 3 race is anything but a team effort. There are full time mechanics working on the car and constantly preparing it for the next race. The atmosphere is one of terrific tension, motor racing has the air and the electricity of horse racing but without the gambling.

Team Effort

To a spectator a motor race is a one day event, for the team it is closer to a week. The cars are taken to the circuit well in advance of the race and the teams install themselves in the pits, a row of double ended garages along the side of the track. Tyres are critical, they work best when warm, over 80 degrees, and have no tread on them. The purpose of tread on a tyre is to cut between water on the road, in a race it is possible to choose a tyre for the conditions - wet or dry. The wet weather tyres look much more like road tyres and are significantly slower than the slicks.

After a few laps of the track the hot slicks pick up the rubber left by previous races. I spoke to the driver of the Acorn sponsored car, David Hunt, whose brother James won the Formula One championship and has now retired from

Simon Rockman has just had first hand experience of Motor racing and found it almost as good as computer car games!

motor racing. He has taken the usual route in motor racing, he started with junior karts, progressed through Formulas and into Formula 3. In Formula 3 it is the driver's job to find a sponsor and a team, to do this he has to be both a businessman and capable of selling himself to potential sponsors, they have to be convinced that they will be getting value for their money, Acorn certainly seem to be. David appreciates the committment that Acorn have to racing, you may not hear about it much in compuiter magazines but in the nonspecialist press David and Acorn have had a lot of coverage.

Computers have sidled their way into David Hunt's life through Acorn. He runs a business selling fast cars, Acorn have written a system to allow him to match buyers and sellers for these

pricey toys. The main prerequisite for these cars is speed, a luxury saloon may be interesting to most people but unless it is really fast David Hunt will not deal with it.

To some extent David Hunt's company is being used as a guinea pig by Acornsoft, if his system proves successful it may be marketed. Acornsoft are doing a fair bit if specialist work on customised systems they have are not very newsworthy.

He Drives His Grandmother's Mini!

It came as quite a surprise to me to learn that David did not actually own a car, I was expecting him to tell me that





he had a rare Ferrari, instead he drives his grandmother's Mini, although he did later admit to arriving in a Porsche.

David said that his brother's success was both a help and a hinderance, it adds some celebrity value to his name but he has to get over to people that he is a different person and has to win his own battles. He said that he rarely talks about racing at home.

Motor racing is about winning, second best is not good enough. But the prize money is tiny, in a race which costs thousands of pounds to enter in fuel and time, the first prize is two hun-

dred pounds.

The main tie up between Acornsoft and Acorn Computer Racing is the research for a forthcoming Pole Position type game. This is the result of my hours of discussion between David Hunt and Geoffrey Crammond (author of Aviator). The game will be based on the Acorn Formula 3 car, racing around a real track, probably Brands Hatch or Silverstone. It will be in colour. Aviator is black and white for smoothness. There will be an exceptional amount of control over the car. Unlike the Lo and Hi gear arrangement of the Atari game there will be five gears and a clutch. David was rather scathing of the arcade game because it is possible to drive around the whole course at full acceleration, racing isn't like that and so the Acornsoft game will be much more difficult, you will need to brake. A racing car has adjustments for the front and rear anti-roll bars, so there will be control over these in the Acornsoft game. There will be other cars on the track and if one of them wants to overtake you you will see it in a rear view mirror.

Putting You In The Cockpit

One of the major limitations of the arcade games is that you are not inside the car but looking at it from above and behind. The Crammond version will put you in the car's cockpit, with full view of the oil and water temperature and pressure gauges, the all important rev

counter but no speedo. Real racing cars don't have speedometers, lap times are far more important. I doubt that the accuracy will be carried as far as the length of the race, I don't think my fingers could stand thirty odd laps of keyboard pounding, I'm sure that the Beeb wouldn't like it. The game sounds very promising, but will not be out for a fair while, the specification is very ambitious and some of the features may have to be dropped to squeeze it into the Beeb's memory.

The Beeb's speaker will not be able to do justice to the unsilenced engine noise, standing in the paddock surrounded by a horde of revving cars is simply deafening, many of the regular mechanics wear ear protectors.

One advantage of playing at home is the comfort as real motor racing is a very tiring sport. Drivers in hot races can lose a litre of water in sweat and so have to keep fit. David Hunt does not do anything special to keep in trim and does not have to watch his weight but is a fit and athletic person.

The car is built around the driver. To climb in, the side plate sized steering wheel has to be removed and then be locked back into place once the driver is comfortable. The cars are started in the paddock and crawl out onto the track in an orderly procession. They do a single warm up lap and then sit tense, ready to race.

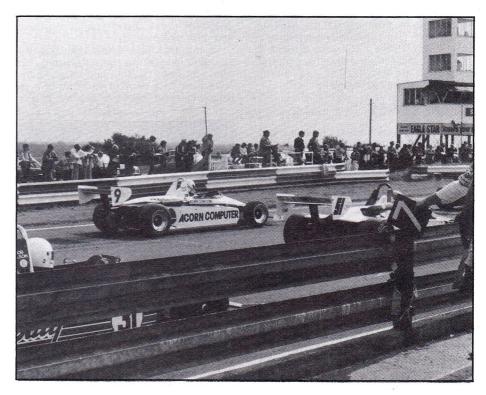
Starting positions are decided by practice times, the fastest cars go to the front and have a considerable advantage. The Acorn Computer car had not been performing well and so had only qualified for twelfth position. As the race started the cars shot into the first bend of the Snetterton track (Riches corner), the acceleration in this kind of car is amazing, 0 to 60 in about three seconds and on to 130mph, the cornering grip is stunning, the tightest bends on the track, The Esses. A saloon car would corner here at about 40, David Hunt's car took them at three times that.

The Race Is On

In the first lap the green and white Acorn car moved from twelfth to fifth. This seven place move put David Hunt in the running for points, the leading cars were soon well away with many seconds lead. The lap times for David Hunt's car varied very little, between 26.1 and 26.9 seconds, but a tenth of a second really makes a huge difference.

David did a magnificent job of hanging onto his place and despite dropping back to 6th managed to hold there and come in fifth after one of the leading cars dropped out. David's girlfriend said that he would be disappointed with fifth, racing is about winning, but then it was a commendable drive and an exciting race.

Even if you are not a motor racing fan a day at the track is great fun and quite a spectacle. I would highly recommend it.



IDEO MG

TURBO

Colecovision Runs on: Made by: **CBS Electronics** Price: Comes with Expansion Module 2 at £50

To play Turbo you need Expansion Module 2 — Turbo Drive Module, which fits into a Colecovision system. This expansion module consists of a steering wheel, a dashboard and an accelerator pedal. You also use a Colecovision hand controller which fits into the dashboard enabling you to change gear.

The Turbo Driver game cartridge is pro-vided with the unit. When plugged into the CBS Colecovision console you actually drive your way through towns and tunnels, and negotiate obstacles and hazards in this exciting race. Other games are to be available which make use of the Turbo Drive Module too.

In Turbo, the game provided with the unit, there are four skill options and these can be chosen by pressing the corresponding number on the hand controller keypad. Lower skills are slower and have fewer cars and obstacles.

The first thing you see on the screen is a set of traffic lights and your car. Once the lights turn green you may shift into a low gear for a faster start and then shift into a high gear, using the control stick on the Colecovision hand controllers.

Each car you pass increases your points total and gets you closer to extended play.

This is shown on the score indicator and the 'cars passed indicator'. For each car that passes you your total decreases.

If your tyres rub against the border, you will hear a squealing sound and your car will slow down. A collision brings you to a stop and this gives other cars a chance to race past. You may start up again by gearing down.

You must pass a certain number of cars in a stated time otherwise your car blows up. If you achieve the number stated the next skill sheet will appear, getting faster everytime you go onto a higher skill.

In the race you have to avoid oil slicks and an ambulance, which, unlike most ambulances tries to kill and not save you! You have to drive through cities, countries, mountain roads, on dangerous sea-side road curves and in icy conditions which can be difficult as your car tends to slip all over the road.

Provided with Turbo there is an owner's manual and a Cartridge Instructions booklet. These are both clear and concise. The owner's manual contains instruction for connecting the expansion module to the Colecovision, care of the game, and problems that may occur while playing and their solutions.

The Cartridge Instruction booklet contains clear pictures of the screen which show you what to expect before playing the game. Also, the number of points and where they can be gained are printed at the back of the booklet.

Overall, this game is well worth the price you have to pay. Graphics are good and control is accurate. On higher skill levels your car goes round the course at a hair-raising speed, making this a very exciting game to play.

Arcades

The latest hot game in the arcades is by Atari and is called 'Star Rider'. The game puts you on the saddle of a high speed jet cycle racing against four other computer controlled bikes. backdrop graphics are by a laser disk with sundry images created by the main computer.

Most video disk games look a bit 'tacky' because when you die your computer generated space ship is turned into an optically generated explosion

— very confusing. Where Star Rider is different is that the backdrops are also computer generated, but by a very big multi-million pound dedicated graphics computer like the one that made TRON or the Olympics titles for the BBC. The backdrops are of various race tracks all over the galaxy and have stunning scenery.

We may do a feature on how to beat this game, but first we have to get past level four and at 30p a time we will

Video News

Atari: Some weeks ago Atari was bought from Warner Communications, for an undisclosed sum in the low millions, by Jack Tramiel. Jack Tramiel is one of the founders of Commodore but left after a shake up of top management earlier this year. Atari lost many millions of dollars last year and its new boss has started a clean sweep to get Atari on its feet.

The company has also changed name from 'Atari International (UK)' to 'Atari Corporation (UK)'. The changes in Atari put some of its new products in doubt. The Atari 7800, billed as a Colecovision beater, is unlikely to appear on the British scene until after Christmas, however the Atari 2600 Jr looks like it and will be launched on time for the Christmas rush. There is no news of what new games will be out so watch these pages for details.

Activision: The high-profile American games company famous for games like 'River Raid', 'HERO', and Space Shuttle' has started to drift away from its video game roots. The newest releases from Activision are for the Commodore 64 and other com-

To mark its entry into the home com-



puter market Activision has taken the Cornish software company Microdeal to court. Microdeal is a company that takes a hard line on software piracy, yet most of its own games are direct copies or unlicensed 'enhancements' of other people's ideas. The Microdeal game 'Cuthbert in the Jungle' is a perfect copy of Activision's 'Pitfall' game for the VCS/Colecovision.

As Activision are moving into the computer market it would be a bit silly

to have two identical programs on the market at the same time.

The proceedings for an injunction against Microdeal were resolved when Microdeal gave undertakings that it would not make any further copies of 'Pitfall' or sell any more copies of their game 'Cuthbert in the Jungle' ''.

Geoff Heath, Managing Director of Activision UK, said that they "would not hesitate to take action again should the occasion arise".

IDEO

MINER 2049 er

Runs on: Made by: Colecovision **CBS Electronics**

£29.95 Price:

The objective of Miner 2049er is for Bounty Bob to survive all 11 game levels. To reach each successive level, Bounty Bob must 'mask' the entire framework on the present level before the time display reaches zero. After all the framework has been filled in, the time left on the clock is converted into points and added to your score. Other means of scoring include collecting miner tools, destroying mutants, and eating TNT! An extra Bob is rewarded when 10,000, 30,000 and 50,000 points are reached.

The first screen consists of ladders which Bob can climb up and down, but already there are mutants out to get Bob. These mutants are dangerous until one of the miner tools is taken, whereupon the mutants change colour and acquire a friendly appearance they smile for a few seconds! During this period they are vulnerable and may be touched to destroy them. If they are not killed they will return to their dangerous state.

The next two levels are similar. The first one consists of sliding down slides and the second one involves an

elevator.

The next five levels have lilypads, a deadly radioactive pool, multiple lifts and a hydraulic pump operation.

In level nine Bob meets the Stompers. Contact with these is lethal. At level ten Bounty Bob must advance to the upper framework by being shot out of a cannon! To do this he needs to go to the TNT chamber and eat some TNT, climb the ladder and then fall into the cannon. The cannon can be moved to the desired position and then Bob will shoot up one level per ton of TNT that he has eaten when the fire button is pressed. If Bob eats more than three tons of TNT at a time the cannon will shoot him out at lethal speeds.

Level 11 is the abandoned uranium mine where Bob should find the reason for going on his adventure — the notorious Yukon Yohan. Bob has to take the uranium and you collect bonus

The game ends when three Bounty Bobs are killed. One or two players can play and there is the option of sound being on or off. These noises include the sound of Bob walking and sliding down the slides

Miner 2049er, in my view, is an average arcade game and is similar to the more famous Manic Miner.

SUBROC

Runs on: Made by: Price:

Colecovision **CBS** Electronics £29.95

A fleet of hostile forces has assembled around your vessel. You must defend the sea against wave after wave of enemies by directing your gunsight to locate them and then shooting them with either torpedoes or missiles.

SCOLECC ASSETTE FUR CBS COLECOVISION

CASSETTE POUR C

You should try to eliminate seven types of enemy objects. Your torpedoes can destroy cruisers and battleships that steam across the sea and your missiles can eliminate flying saucers, but they can shoot missiles and mines back at you and so can the cruisers and battleships after a while.

A mystery ship can appear in every attack and when you hit it bonus points

are awarded.

Green fighters will appear next. They fly at your Subroc vessel in close formation and will fire missiles at you. You have to destroy them all before the next attack.

Interceptors fill the sky. You must fire at these for 200 points each. Drones weave across the sea as they fire torpedoes, missiles and mines at your vessel. You must hit them with a torpedo to knock them out of action.

Once the sea clears the Command Plane will swoop in from above. The bonus value will start to decrease. If you destroy the Command Plane before the bonus value reaches zero, you will win the points in the Mystery Bonus Indicator. This plane fires missiles and hides behind a moving shield. If you hit the centre of the shield it vanishes for a second and you earn 400 points. You then have a chance of hitting the Command Plane.

Your final opponent is the Command Ship. Your vessel's weapons have to penetrate the ship's force field to eliminate this fleet leader.

In even numbered rounds of this game you start battling during the day. When the sky turns from blue to orange your vessel is in twilight and then, when the sky is black, it is night time.

With this game, as you can see, there is plenty of action going on. There is the unusual combination of space ships and ships such as tankers on the screen in one game!

If you like unusual games Subrock should be added to your collection.

Megamania Madness

We print here a picture of what happens to Activision's 'Megamania' game for the VCS when you score more than 999999 points.

This amazing feat was performed by Peter Green — the editor of one of our sister magazines 'Computing Today'. Pete is one of the hottest video game players in our offices - yet he edits a 'serious' magazine that doesn't touch games at all!



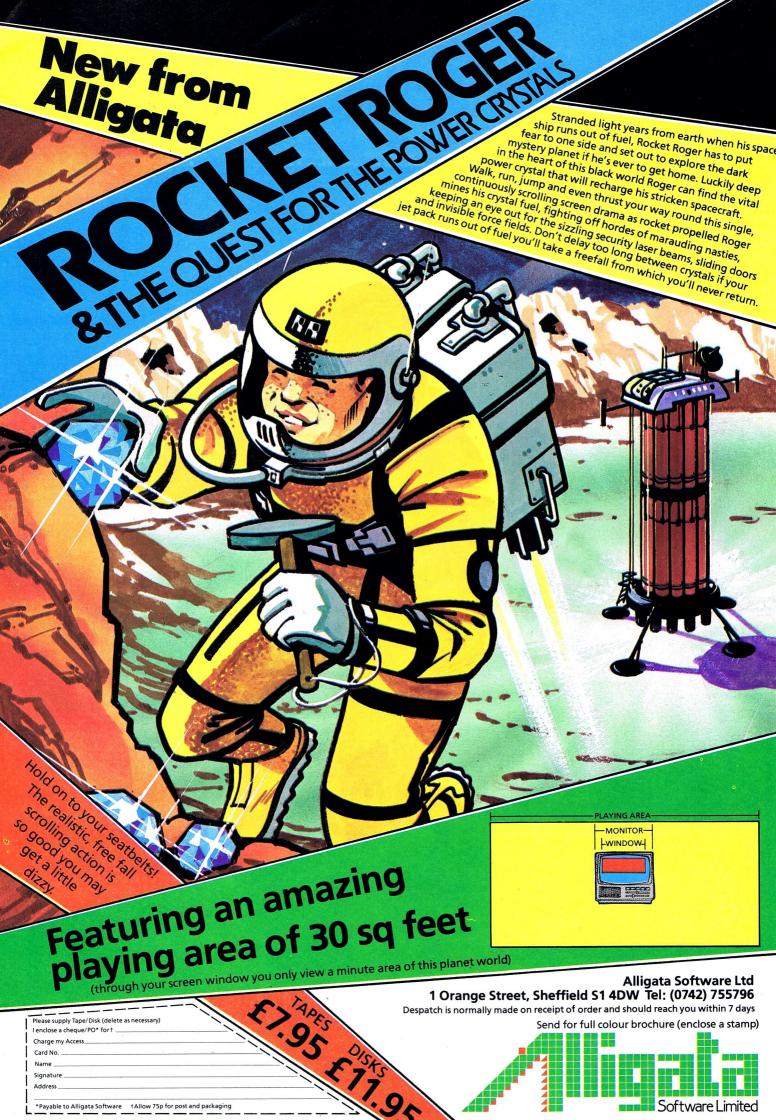


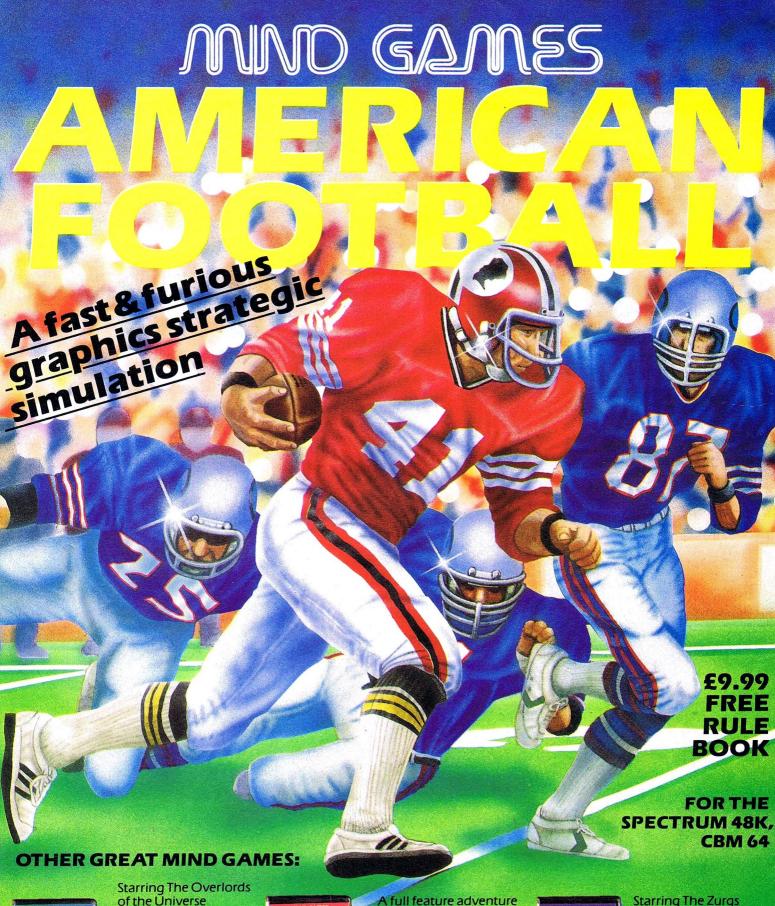
Having made the screen go blank and the video game 'hang' completely so that it had to be turned off, Pete turned his hand to the Atari computer version of this game where his current score is around 128000. We don't vet know what happens when you 'clock' the computer version, but we would like to know.

If you have a high high-score then send in the details signed by a witness, and a picture of the screen if possible so that we can print it.

Send your claims to:

High High-score/Games Computing 1 Golden Square London W1R 3AB Best of luck.







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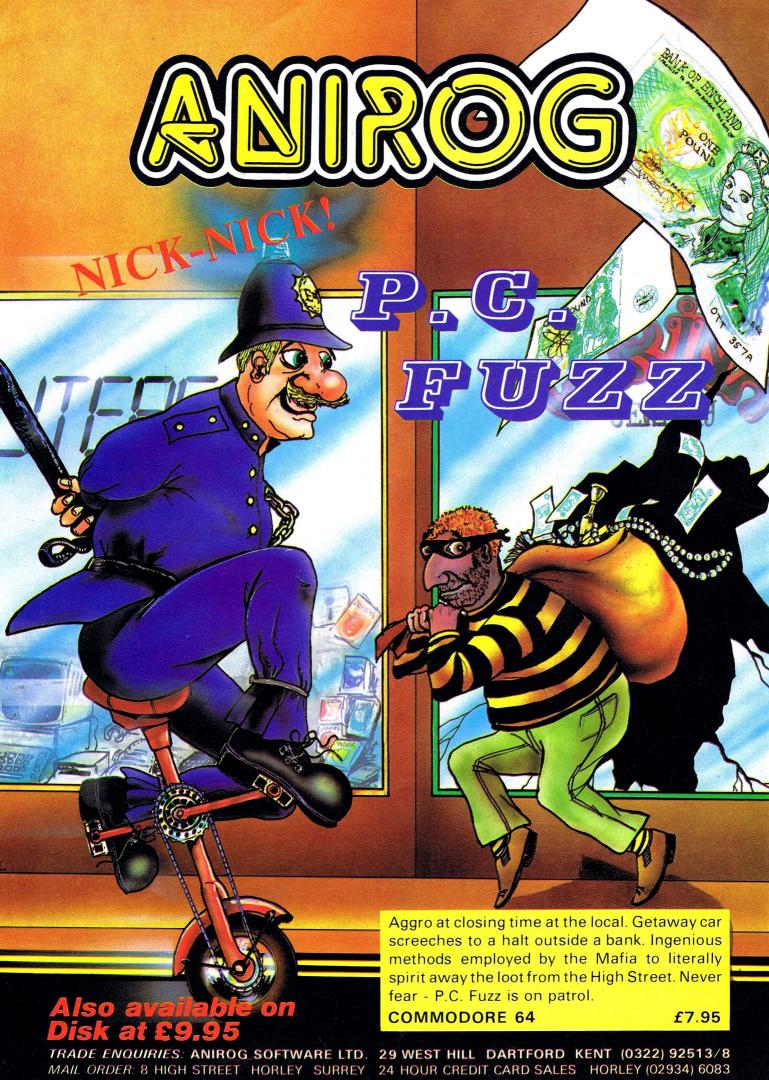
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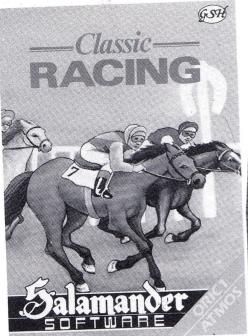
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SOFTWARE



CLASSIC RACING

Runs on: Oric 1/Atmos Made by: Salamander Price: £7.95

This horse racing simulation enables up to six people to play at once so it can be, and is, a very good game for all the family. If less than six people play then the computer controls the remaining places — and tough opposition it makes too.

After entering your name you are presented with a choice of 4 to 16 meetings. To play the game properly you should play sixteen meetings so that you have plenty of time to find out what ground and distance each horse prefers. The race programme shows all the meetings in a season and what distances each race is over — there are six races to each season. Each player then selects a horse for each race from their stable of sixteen horses and then the betting takes place. The odds and weight are shown on the screen, the heavier the horse the better it will go. When all betting is finished the graphic capabilities of the Oric take over.

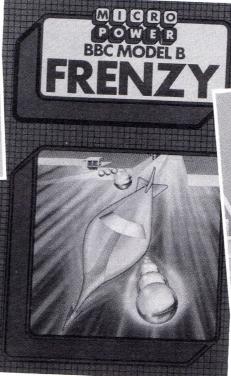
The course is set out, the green track enclosed by the rails and the starting line is in the middle of the screen. The horse (plus jockeys) walk to the line and then they are away. Realistic galloping sounds complement the graphics as the screen scrolls from right to left. As the horses battle for positions the furlong posts come and go and soon the race is

over. The computer works out all the betting and the stake money is divided between the first three places. By entering the same horse in different races you are able to plan your favourites for the eight classics at the end of the season.

A save game feature is a very helpful addition to this truly excellent and addictive simulation game — a must for Oric owners — Get It!

and go to the fast speed by pressing the space bar. You lose a life if a lepton hits you or the line behind your craft before the area is filled in.

A good strategy is to build narrow blocks in the centre of the screen using the fast speed until there is only a small gap near the top of the screen. Then to join these blocks to the top of the screen using the slow speed when the lepton is in the smaller half. This tactic only works if there are few leptons otherwise try to split it into three before trying the same tactics. This is a very enjoyable game that is very addictive and easy to play.



FRENZY

Runs on: BBC
Made by: Micro Power
Price: £7.95

In this great game you have to trap the darting 'leptons' using your robot craft. You do this by leaving a trail behind your craft and when you reach the edge of a filled in area the smaller of the areas is filled in.

The lepton is destroyed either by getting caught in the area that is filled in, or when 95% of the screen is filled in. The amount of area that is filled in is shown by a line at the bottom of the screen that disappears as you fill in the areas.

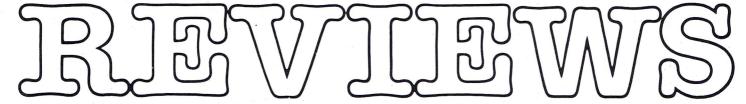
You have the option of two speeds for your robot craft. The slow speed fills in an area red, and the fast speed fills in areas pink. You start on the slow speed



HEIST

Runs on: BBC
Made by: Soft Spot
Price: £6.95

You are a bank manager and it is the close of a very busy day so you have to go to different parts of the bank and return the money that you find there to the safe. Sounds simple, it would be but there are four burglars who also want the money and they are determined to



SOFTWARE

catch you so that they can make off with it unhindered.

There are two hammers in corners of the bank and with these you can knock out the burglars, but you can't move up or down the ladders that connect the different parts of the bank. You get bonus points if you drink the cup of tea that appears at random for a short time

somewhere in the bank.

The burglars also leave bombs around the bank that, if you don't defuse them, blow up killing you. When you get all the money to the vault in the bottom of the bank, business starts for the second day and this time the burglars are more determined, there is more money to collect, and more bombs to defuse.

I like the way your initials are put into the hi-score table using the cursor keys like in the arcades. There is also a freeze option, useful for answering the phone, making coffee, going to the toilet, etc. This is an enjoyable combination of both Donkey Kong and Space Panic with an element of its own.

DRAGON 32 OPTIONAL

MICRODEAL

CUTHBERT IN SPACE

Runs on: Made by: Price:

Commodore 64 Microdeal £8.00

Basically, the game resembles that of Ultimate's Jetpack but with added features to make full use of the Commodore's facilities.

The scenario is set with the player (using either the keyboard or a joystick) having the task of controlling a remote

shuttle to firstly pick up fuel pods (which are lying on the different levels one at a time, to the mothership located at the base of the screen. Whilst keeping an eye on directing the shuttle to collect the final actions to the return to the screen. return to the mothership, it would be useful if the other eye (at the same time) could be used to avoid the horizontally flying objects otherwise known as the Intergalactic Police Force.

Once having collected all of the fuel pods and returned each to the mothership, the player is then transported to another planet with an increased number of fuel pods and flying objects whose movements become increasing-

ly erratic.

As an option, to gain additional points the player having collected the last fuel pod and before returning to the mothership to transport, can hang around to collect the falling treasures before they hit the ground, whilst still avoiding the IPF, returning only when totally satisfied with the loot, to beam

into another screen.

Occasionally, whilst transporting between planets, the mothership develops a malfunction and requires maintenance. This is accomplished by having to send out the shuttle to the location of the nearest supply parts. The player is given the coordinates of the mothership's location, the shuttle's present position and that of the parts depot. The joystick or keyboard can then be used to change the coordinates of the shuttle's position to match that of the parts depot and then back to that of the mothership, within the specified time limit.

There is a pause feature with 12 levels of play of which 1-8 is user selec-

ARENA 3000

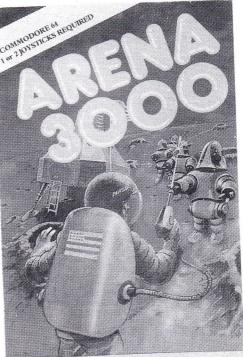
Commodore 64 Runs on: Made by: Microdeal Price: £8.00

The theme of this game is set in the year 3000, where a lone cyborg (human/machine hybrid) begins in the centre of a large enclosure surrounded by hostile enemies. The task is to destroy the creatures within the enclosure (using an arm pistol) as the enemies approach from all directions.

Once having cleared a wave of dangerous robots, yet another appears but with opponents that move faster, require more hits to be destroyed and mutate, upon being hit into other forms of robots. Each form having a set pattern of movement.

The game begins with the player having 3 cyborgs at his/her disposal and an additional one for every set of 20,000 points scored.

Each screen has a certain number of enemies of which there are 8 different forms. The opponents, on a screen, can



MICRODEAL

be all of the same form or several different forms.

The game requires the use of one or two joysticks. If one joystick is used the cyborg's movement and firing is controlled by the directional movement of

the joystick.

If two joysticks are used, then one joystick can be used to control the movement of the cyborg and the other can be used by a second player to fire in any direction regardless of the movements made by the first joystick. This proved to be very useful in tight situations to achieve enormous scores but requires the aid of a second player. As a matter of interest a score of over 2.5 million was reached with about 30 cyborg's remaining after around 150 screens/arenas (after the 99th screen the arena numbers are reset to Zero) when the phone rang and I frantically grabbed the instructions, searching for the key to pause the game but found

So, by this some indication can be given as to the addictiveness of the game.

THE FOREST

Spectrum 48 K Runs on: Made by: **Phipps Associates** Price: £9.95

The Forest is a computer simulation of the sport of orienteering. The user of the program becomes the competitor and is able to tackle all the navigational problems encountered by orienteers without the necessity for physical fitness. With the tape, you are supplied with a detailed map of preset routes marked out with the course you must take. To participate in the game you will need to have a ruler graduated in millimetres and a geometry protractor for measuring angles.

A book is provided with the tape which explains the principles of orienteering and also how to use all the commands and the cursor keys to move you along. It is essential to study the book carefully before commencing the race or you will waste valuable time looking up commands.

You can quit the game at any time and there is incorporated a facility for cheating to get you out of tight spots, but if the latter is used then this will be reported and held against your score at the finish.

As well as the two courses provided, there is an option which allows you to plan your own course and save it on tape and an extra map is available separately.

As you travel along your route, what you will see normally on the screen is what you would be seeing if actually orienteering out in the open, for instance trees, houses and other land features.

When you have mastered the art of map reading and operating the controls, 'The Forest' provides a very accurate representation of the difficulties encountered in orienteering, and would provide valuable experience for anyone wishing to take up the sport. It can also be a lot of fun for those who already participate and have previous experience in orienteering.

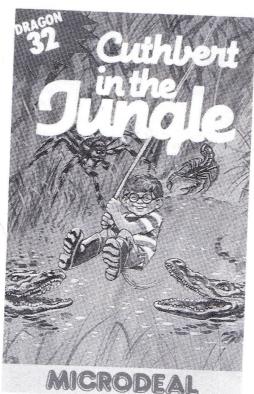
CUTHBERT IN THE JUNGLE

Runs on: Commodore 64
Made by: Microdeal
Price: £8.00

The star of the game features Cuthbert, whose adventurous nature has led him to a jungle filled with perilous perils.

The player controls Cuthbert via the keyboard or a joystick, and has the task of guiding him through the jungle, whilst avoiding the many hazards in order to collect the treasures strewn along the path.

There are 120 screens of which, no two screens are claimed to be the same. The hazards in this game include crocodiles, scorpions, fires, snakes and tar pits. Collision with any of these dangers would lead to the loss of a life. Then there are the rolling logs and holes in the ground. These are not as fatalistic as the previous set of hazards but either collision with the logs or falling down a hole leads to a loss of points rather than the loss of a life. So, instead of falling through the hole to reach the subterranean level, the ladder could be used, as



in certain parts of the underground passage could be used to bypass the overhead dangers.

The game begins by giving the player 12 minutes and three lives to collect as many of the treasures inside the time limit, through the pause facility allows the player to take a breather from time to time

Overall, I found this game to have a great addictive appeal, in that there are a number of obstacles that need to be overcome in a specific manner, before the treasures can be obtained.

DANGER RANGER

Runs on: Commodore 64
Made by: Microdeal
Price: £8.00

In this game the player controls the Ranger with the aid of either the keyboard or Joystick - personally I found that the keyboard gave a greater degree of control in the manoeuvres that were to follow. The basic object of the game is to traverse through the 2 different screens, which are then repeated but at an increased level of difficulty in terms of the ferocity of the attacking dangers namely floating urns, radioactive bats and roving eyes (on the first screen) and the drop of acid rain accompanied by the stationary monsters found on the second screen.

The object of the game is to collect the 10 keys situated openly on the 5 platforms of the first screen. Each platform having 2 keys with 1 or 2 spaces for the Ranger to fall through to reach the platform below. The Ranger can jump over these spaces to reach the key on the opposite side of the platform. As well as being able to jump the Ranger can also duck down to avoid the bullets, floating bats and the roving eyes. At the centre of the fifth platform at the base of the screen is a spring that can be used to propel the Ranger back up to the first platform in order to collect any remaining keys.

Having collected the tenth key the Ranger then has to face the acid chamber to collect all of the treasure chests (located on the right hand side of the screen), whilst avoiding not only the drops of acid rain, but also the 4 demons which have to be shot.

There are 5 levels of skill, a hi-score tabe and a pause facility that allows one to ponder the oncoming doom. There is also a practice mode in which the Ranger can duck, dodge and shot to kill without being killed.

Overall, I found this to be a very difficult game and found myself increasingly attracted to the practice mode where my score seemed to be more reasonable.

THE ULTIMATE CROSSWORD

Runs on: BBC 32k Made by: The Alien Price: £6.95

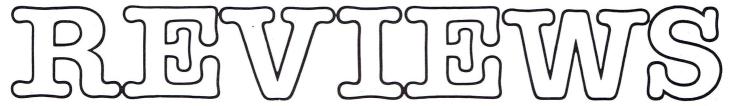
This is as the title suggests 'The ultimate crossword' — it is three dimensional. Instead of just one 15×15 square to think over, it is a $15 \times 15 \times 15$ cube of 30 crosswords with interlinked clues. This means that words now have to fit three ways not just two.

Each crossword is identified as either a front or a side followed by which one it is (A-R). The clues are arranged on the computer by a co-ordinate system the letter followed by the number. This is slightly annoying as in the book of clues supplied they are referred to as a number followed by the letter.

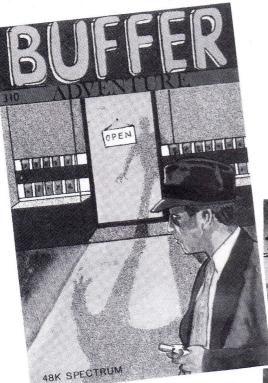
The puzzle itself if stored as data on tape and can be saved and reloaded for later use, this means that you don't have to keep typing in the clues that you have solved. The main program is in BASIC this means it is fairly easy to convert it for use on disc. Included within the program is an anagram solver, this might have some use for the dedicated crossword fanatic but I couldn't find one.

I am not the crossword sort of person, but I found it very enjoyable and easy to use, I even solved two clues (wow) side A 7H across is 'arc' and front B 1J down is 'orange'. That's what I made them and they fit, so please don't tell me they are wrong.

P.S. Can anyone tell me what "A wise plant?" is in four letters?



SOFTWARE



again, and the knowledge that you have previously acquired will assist you further the next time you play. An exciting adventure requiring

fatal mistake then you can always start

much thought and a talent for solving new challenges. The only problem I encountered was communication. The vocabulary was rather limited and it was difficult finding words that the computer could understand. A lot of fun however. Well worth buying.

All commands, with the exception of Help, Quit an Inventory, must be entered as two word commands so that the computer can interpret them correctly. This also means that directional commands must be entered as two word commands such as, GO WEST or GO NORTH. This is extremely time consuming and there is a pause of quite a few seconds each time the computer responds or replys.

Instructions provided are adequate and the help command often gives some useful hints. Clues are also included in the description of each surrounding so if you look carefully you should be able to evaluate your next move.

Very much a typical adventure game but with a difference in the usual story line. In Demon Knight you have the opportunity to rescue a beautiful maiden in distress, from the evil clutches of the demon Beelzebub, and them marry to live happily ever after. A wonderful fairytale ending, if you ever get that far.

BUFFER ADVENTURE

Runs on: Spectrum 48k Made by: **Buffer Micro** £5.95 Price:

Buffer adventure is an adventure set inside the Buffer Micro shop. Inside you must discover the idiosyncrasies of the weird and wonderful characters who work in the shop. To complete the adventure you must enter the shop and search its many rooms and passages tofind your credit card and buy the goods in the shop. When you have paid for your goods you will be permitted to leave.

Every correct action you perform will increase your score but beware of making mistakes for one wrong move could leave you trapped forever, never to see the light of day again. Also you must be careful not to annoy the employees of the Buffer shop, for one step too far and you could be dead.

Draw a map as you go to help you remember your position and watch out for sarcastic comments from your computer. In this shop your spectrum takes full command and will stand for no nonsense.

Keep an eye out for clues scattered around which may lead you to find what you're looking for. If you do make a



DEMON KNIGHT

Runs on: Spectrum Made by: **ASP Software** Price: £6.99

Demon Knight is described as an adventure game which is difficult deadly and logical. You aim to root out and destroy the Demon Beelzebub. Beelzebub will not appreciate it if you attack him with weapons or try to kill him in this way, so to help you you must enlist the powers magic. Before you even get the pleasure of meeting Beelzebub however, you must solve all the puzzles on the route to find him. This could take

Demon Knight is a text adventure and one which I find to be rather slow.

INVASION

Price:

ZX Spectrum 48 K Runs on: Made by: ASP £6.99

This is no arcade game but one of strategy where you are in charge of the Western Alliance land forces, just prior to an invasion by red tanks. You must exercise skill and judgement as you move, supply and build up your limited defences to stand any hope of victory. The screen is set up into three parts: the map, army numbers (morale and the number of units) and the message area.

The game begins with complex instructions and then draws the screen. The map consists of a grid with letters and numbers at the top and sides. Next you are asked for orders. Here you must input the number of the army (shown as a tank with a number on it) and then given choices of increasing your strength, reducing it or moving. To move cursor keys are used. Once you are satisfied with strength/moves you exit from ordering mode and are asked if you want to attack. If you choose to do this you must input the location, army number and the number of units to be used. Now a battle report will be given. This features the number of units lost on both sides. Now you are asked if you wish to abort the game. If you press then the score is printed.

The graphics are only U.D.G.'s but reasonable considering the game is in BASIC and the sound is adequate. Recommend for a strategy fanatic.



You are commanding a squadron of four ground attack aircraft...

The mission is seemingly hopeless.

Fly along the river at zero altitude, twisting and turning crazily to stay within its tortuous banks, blasting at anything and everything in sight. Especially the bridges.

Three of your jets are held in reserve while you are pitched against Battleships, Enemy Aircraft, Land Tanks, Balloons, Helicopter Gunships. All intent only on your destruction.

And destroy you they will, if you don't get them first. You'll need to keep an eye on your fuel gauge. But take comfort, you can take fuel on board from one of the special depots.

If you get hit – and nobody has yet reached the end of the river – your next reserve starts at the last bridge you blasted on your way through!

Each target you destroy adds to your points score.

Like all Activision Software, River Raid will hold you and keep you coming back for more.

Chocks away!



This game was written up a BBC Mode B (32 k), but it will work on a mode A (16 k) as it runs in mode. The program is just unce 6k long and will work on any operating system.

The game itself is shally to the nopular areads game. Space invaders. Thought as it's in mode? the graphics are not very good it's still fest action pecked fun.

The program contains an explanation of the controls needed, and also a brief explanation of what the player has to do, although I expect everyone knows how to play "Space invaders".

There are five levels of difficulty, of which level 1 is the easiest, and for every time you clear a screen your move up to the next level. There is also a top ten score board, if you are good enough, to put your name into.

RUNdow	vn			
Lines	Action			
10-40	sets the mode and the sound envelopes.			
50	traps and reports any errors the reader may have made.			
60	gets rid of the flashing cursor.			
80-120	sets up the top ten scores and names.			
140	calls the procedure to assemble the machine code.			
150-360	sets up the variables.			
PROCdecide	works out which alien			
PROChit	has been hit. checks if your rocket			
rnociii	has hit an invader.			
PROCfire	moves the rocket.			
PROCplay				
810-940	moves the base and calls any relevant procedure.			
950-1040	calls up the machine code to move the invaders left or right.			
PROCmc	assembler routine.			
1320-1640	moves any "V" on the screen to the right.			
1670-1990	moves any "V" on the screen to the left.			
PROCcheck	checks how far the invaders can move before they change	PROCd	This is a useful routine	
DD 0 04:-	direction.		to use at the end of a	
PROCfin	This starts the program again.	PROCtitle	page of introduction. prints in the middle of	
PROCend	reduces the players	(W\$,E%)	the screen on line E%,	
	lives by one and checks		in a random colour, in	
	to see you have some	0000	double height, W\$.	
PROCdown	left. moves the invaders	PROCIntro	Prints up the	
ROCdown	down the screen.	PROChi	introduction. Prints and places any	
PROCsetd	works out which is the	THESH	new name in the top	
	lowest invader in a column, so that it can	PROCask	ten score board. Asks if the player wants	
	drop a bomb, without	THOCask	another game and acts	
	hitting the ones below	5555	on the response.	
	it.	PROClives	Prints up the number of	

PROClives

moves the "* " bomb down and checks if it

has hit the base.

PROCdropb

Prints up the number of bases the player has left at the bottom of the

screen.



Variables Used

L% A% TIM

X% & Y%

XB% & YB% D%

son%

SC% DF% & FL% Permanent score record. Number of lives left. Present level of play. Speed of aliens. co-ordinates of the

base. % co-ordinates of the rocket.

Direction of the invaders (left or right). Pitch of the background

sound. C% present

present score. % Flags for the rocket and the bomb.
PL% Position along of the

invaders.

LB% & RB% How far the invaders can travel to the left

and right of the screen. LC% & RC% Furthest column of invaders to the left and

right.

BC% Which invader row is the bottom row,
BB% Which line the invaders have to reach before

they have landed.
DX% & DY% Co-ordinates of the
"#" bomb.

```
810 DEF PROCplay
                                                                                       820 PROClives
                                                                                      830 SOUND 2,1,40,1
840 PRINT TAB(0,Y%);CHR$149
                                                                                       850 TIME=0
                                                                                       860 REPEAT
                                                                                       870 IF DF%=0 THEN PROCsetd
                                                                                       880 PRINT TAB(X%-3,Y%);
                                                                                            X%=X%+INKEY(-98)-INKEY(-67)+(X%>36)-(X%<4)
                                                                                       900 IF INKEY(-74) AND FL%=0 THEN XB%=X%:YB%=Y%:FL%=1
                                                                                       910 PRINT TAB(X%-2,Y%); CHR$149; "x/t"
                                                                                       920 PROCdropb
                                                                                       930 IF FL%=1 THEN PROCfire
                                                                                      940 UNTIL TIME>TIM
950 IF PL%<LB% THEN PROCdown
960 IF PL%>RB% THEN D%=0:PROCcheck
                                                                                      970 IF D%=0 THEN CALL&D00:PL%=PL%-1
980 IF D%=1 THEN CALL&D80:PL%=PL%+1
990 IF FL%=0 THEN 1030
    10 MODE7
    20 ENVELOPE 1,2,1,-2,1,10,10,10,126,0,0,0,50,50
30 ENVELOPE 2,2,12,-24,12,20,60,20,126,0,0,0,100,100
40 ENVELOPE 3,1,150,200,100,20,20,45,126,0,0,-1,100,
                                                                                     1000 E%=?(HIMEM+YB%*40+XB%)
                                                                                     1010 PRINT TAB(XB%,YB%);CHR$255
100
                                                                                     1020
                                                                                            IF E%=86 THEN PROChit
                                                                                     1030 GOTO 850
    50 ON ERROR A%=ERL:REPORT:PRINT ;" at line ";ERL;:RE
                                                                                     1040 ENDPROC
PEAT: A=INKEY(0): UNTIL A=-1: END
    60 VDU 23;8202;0;0;0;
70 DIM N$(10),SC%(10)
80 FOR Q%=1 TO 10
                                                                                     1050
                                                                                     1060
                                                                                     1070 DEF PROCsetup
                                                                                     1080 SPL%=0
    90 N$(Q%)=CHR$(RND(6)+128)+"James Mcpherson"
                                                                                     1090 FOR TY%=3 TO 15
   100 SC%(Q%)=(11-Q%)*150
                                                                                     1100 PRINT TAB(0,TY%); CHR$(128+RND(7))
   110 NEXT
   120 DIM 5%(8,5)
                                                                                     1110 NEXT
   130 PROCIntro
   140 PROCMC
   150 C%=0:L%=3
160 IF A%>5 THEN A%=5
   170 TIM=(6-A%) +30
   180 X%=19:Y%=20
   190 D%=1: XB%=X%+2
   200 YB%=Y%
   210 SON%=40
   220 FOR Q%=1 TO 8
230 FOR W%=1 TO 5
   240 S%(Q%,W%)=0
   250 NEXT
   260 NEXT
   270 SC%=C%
   280 FL%=0:PL%=3
   290 CLS
   300 LB%=3:RB%=6
   310 LC%=1:RC%=8
   320 BC%=5:BB%=11
   330 DX%=0:DY=0
   340 DF%=0:STIM=TIM/39
   350 C1$="V"
360 C2$="V"
   370 PROCsetup
   380 PROCplay
   390 END
   400 :
   410 :
   420 DEF PROCdecide
430 PRINT TAB(NXB%-1,YB%);"
440 SOUND 1,-15,200,2
   450 FL%=0
   460 XN%=(XB%-PL%)/4+1
   470 YN%= (YB%-8PL%-3) /2+1
   480 8%(XN%, YN%) = 1
490 XB%=X%: YB%=Y%
   500 SC%=8C%+10
   510 PRINT TAB(15,0); SC%;
520 TIM=TIM-STIM
         IF TIM=30.5 THEN TIM=1
   540 SON%=SON%+3
   550 SOUND 2,1,SON%,1
560 IF (SC% MOD 400)=0 THEN C%=SC%:A%=A%+1:GOTO 170
                                                                                     1120 FOR TY%=3 TO 12 STEP 2
1130 FOR Q%=3 TO 29 STEP 8
1140 PRINT TAB(Q%,TY%);C1$
1150 PRINT TAB(Q%+4,TY%);C2$
    570 ENDPROC
    580 :
   590 :
    600 DEF PROChit
                                                                                      1160 NEXT
                                                                                      1170 NEXT
    610 NXB%=0
                                                                                     1170 NEXT

1180 PRINT TAB(8,0); CHR$129; "Score-"; C%

1190 PRINT TAB(23,0); CHR$132; "Hi-score-"; SC%(1)

1200 PRINT TAB(0,1); CHR$146; STRING$(39,",")

1210 PRINT TAB(0,22); CHR$145; STRING$(39,",");
    620 Q%=0
   630 PRINT TAB(XB%,YB%);CHR$255
640 IF YB%<3 THEN PRINT TAB(XB%,YB%);" ":FL%=0
650 IF E%=86 THEN NXB%=XB%
660 IF NXB%>O THEN PROCdecide
                                                                                      1220
                                                                                            ENDPROC
    670 ENDPROC
                                                                                      1240
    480 :
                                                                                      1250 REM*** Type in the following ***
1260 REM*** assembly language very ***
1270 REM*** carefully. As one error ***
    700 DEF PROCfire
    710 PRINT TAB(XB%,YB%);" "
                                                                                      1280 REM*** could destroy the whole ***
    720 YB1=YB1+1
    730 IF YB1>0.9 THEN YB%=YB%-1:YB1=0
                                                                                      1290 REM*** program.
    740 E%=?(HIMEM+YB%*40+XB%)
                                                                                      1300
                                                                                             :
    750 PRINT TAB(XB%,YB%);CH#$255
760 IF E%<>32 AND E%<>150 THEN PROChit
770 IF YB%<3 THEN PRINT TAB(XB%,YB%);" ":FL%=0
                                                                                      1310
                                                                                      1320 DEF PROCMC
                                                                                      1330 FOR Z%=0 TO 2 STEP 2
                                                                                      1340 P%=&D00
    780 ENDPROC
                                                                                      1350 COPT Z%
    790
         :
                                                                                             .BIGLOOP LDA #&7F
    800 :
```







In this issue we have a feature about Acorn's racing car and the man who drives it — David Hunt. Acorn are working with David to produce a motor racing game by the author of Aviator. We thought it would be a good idea to see what other racing games were on the market so here's what Mike Roberts found.



POLE POSITION

Runs on: Any Atari Home

Computer

Made by: Atari

Price: £29.95 (cartridge)

This was the first really good racing game in the arcades, it was no surprise when Atari converted it for use on their home computer system. The end product is quite excellent. Very little has been lost in the conversion from arcade machine to home computer and the graphic abilities of the Atari are really used to the full. I always knew that the Atari was theoretically able to produce such displays but I had never seen anything like them before.

There is the option to select between four different race tracks of changing difficulty. The course of the race track itself does not change but the number and viciousness of the cars increases. One option is a practice lap where there are no cars at all.

Also selectable is the number of laps that you want to race from 1 to 8.

At the beginning of the game you have to do a lap of your own and complete it in a certain time. What time you get also determines where on the grid you start and how many bonus points you get — the top being 4000 points and 'pole position'.

The line up at the start is very realistic with two rows of eight cars with a starting line and traffic lights in full 3-D and perspective. The lights count down, the hooter blows, and the're off!

Then comes an exciting race around the track. Each lap must be completed in a certain time or the game ends. If the lap is completed within the time then more time is added onto the remaining time for the next lap. This is very important as a bonus of 200 points is given at the end of the game for each second that is left on the clock.

There is a bug in this though which limits the maximum amount of time that you can have on the clock. Towards the end of the race you can have a large amount of time on the clock. The bonus at this point can be an extra 60

seconds, now the time left indicator can only display two digits so that if you go over the line with 40 seconds on the clock, the clock resets to 00 that being 100 with the first digit knocked off. When the clock is 00 the game ends and you can go no further. The technique is to go across the line with 39 second on the clock so that it goes to 99 seconds left.

This is one of the most enjoyable and addictive games that I have ever come across. I played it for so long that I got good enough to win a competition held by Atari where the prize was training in real racing cars. My top score is 10 B750 — beat that!

MONACO

Runs on: BBC Made by: Alligata Price: £7.95

Monaco is Alligata's entry into racing games for the Beeb. The game has you driving down a straight road that stretches out before you. Controls are z left, x right, and return to accelerate. That's all you can do. The other cars on the road swerve around to try and wreck your car.

An added feature is the ambulance. This is no friendly Florence Nightingale transporter, but an obstacle to avoid as it tries to run you into the ground.

When burning down the road attempting to slide your way through a pack of opposing cars, be prepared to watch your speed as there is no brake. The car slows itself down quite quickly so there shouldn't be any great problem with speed — just don't be too flashy.

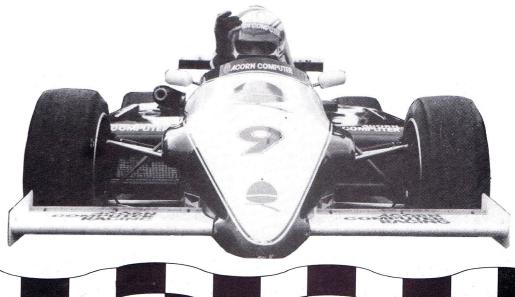
This game is good if you just want a simple racing game without too much complication and you don't want to take the Institute of Advanced Motoring test just to understand the controls.

Not as advanced as some but sweet and simple.

BUMPING BUGGIES

Runs on: Commodore 64
Made by: Bubble Bus
Price: £7.95

Bumping Buggies is a race game with a through four seasons of motoring and varying weather conditions. Your opponents on the track are very mean and seemingly limitless in numbers. Your buggy does have one small (or large) advantage over them though — it can fly.





Yes, your beach buggy can leap into the air over obstacles and land perfect control.

Flying through the air has numerous advantages. Firstly it is necessary for leaping over the rivers that sometimes appear in your way. Secondly it gets you points, because if you land on an opposing buggy it will either explode gaining you points or crash gaining you more points again. Finally it can get you out of the situation where a lot of enemy cars are ganging up on you and forcing you to crash.

You can only crash into the verge on this game. If you hit any of the other cars you just bounce off each other. However, in this game the verge twists and turns with chicaines and obstacles abounding.

This is a very enjoyable game with some good musical effects. Well worth getting.

CHEQUERED FLAG

Runs on: Spectrum
Made by: Psion
Price: £6.95

This is one of the best Spectrum games around, it just about comes up to the standard of Atarisoft's 'Pole Position'. The option screens are fantastic. Graphical displays of the four cars that you can choose between and the five tracks.

The screen display in the actual game is very good. The picture has you in the driving seat with all the instruments and the steering wheel visible. When you turn a corner the steering wheel turns as well. This is in contrast to Pole Position where you are floating in the air behind the car.

One thing I don't like is the lack of any opposition. The game is purely a race against time — there are no competing cars to get in your way. The fight against other cars is what makes a lot of lesser racing games fun to play, it's a shame that Psion couldn't do it — mind you its amazing that they could get this much out of the Spectrum it the first place.

The graphics are quite stunning as you race around the track and this just about makes up for the lack of enemy cars. If you want a Spectrum racing game then take a look at Pole Position and Chequered Flag, both are slightly different and which is best is purely personal choice — they are both excellent games.



POLE POSITION

Runs on: C64, Spectrum, BBC B
Made by: Atarisoft
Price: £9.95 - £19.95

(C64 cartridge)

Atari has to produce games for other machines eventually. The market out there is just too big to ignore. The huge success of Pole Position on the Atari home computers was the cue to launch it on a range of other machines.

Probably the best looking version is the one on the Spectrum. Not because it is anything like the real Pole Position but because the programmer has kept the display within the restrictions caused by the Spectrum and not tried to do anything flashy.

The BBC version is a bit odd when cornering. On the Atari a standard technique to get around the corners is to skid. Skidding will reduce your speed to managable levels and point you in the right direction. Pole Position on the BBC uses MODE 2, this screen uses up 20K of memory. Scrolling the screen normally on a beeb is quite easy because the hardware does it for you, but if you want to selectivly move 20K chunks of memory around it gets a bit jerky. In fact at one point the car stopped dead

and the road lept half a car width to the right — it looked a bit odd. Despite this, if you play it 'properly' and use the brake (I never do) it can be quite realistic and enjoyable. Definitley the best racing game for the Beeb on the market.

The Commodore 64 version is the best of the three mentioned here due to the colour range. The Atari and the CBM64 have a much wider range of colours than the Beeb and the Spectrum which only have eight. The addition of browns and a grey scale really make a difference. Extensive use is made of the Commodore's graphics ability although it could have been better. The sound, However, is quite bad. The C64 has the biggest and best sound chip in any home computer, it isn't being used much at all - which is a shame as it could be made a lot better. If Turbo 64 ever gets off the ground then there could be a real battle on between the two, but at the moment this is still the best racing game for the 64.

Overall there is very little on the market that comes anywhere near these games in terms of excitement or realism. Compared to the original Atari computer version they look weak but on their own they are quite good. I don't blame Atari for producing a better program for their machine than for the opposition, it would be bad business sense otherwise.



MMD GAMES

PROGRAM GUIDE





Spectrum 48K - £7.99 CBM 64/BBC/Atari - £9.99 ORION



Recommended viewing Early Evening 6.40 pm Orion Quest

A full feature adventure starring well known nasty aliens the Zarps plans to blow up the earth. Screen play N. White Costume Design D. Jordan Directed Martin Edwardes Produced Argus Press Software Available for Spectrum 48K, BBC, CBM 64.

Mid-evening 9.00 pm Quest for Eternity Starring The Overlords of the Universe

The candidate (you) have to get to the Chamber of Creation. It's a laugh a minute, since it's 2000 light years away Can you play the hero and stop their on the most horrible planet in the Universe ... and your starship doesn't work either!

Written by David Cockram Directed Martin Edwardes Produced Argus Press Software Available for Atari, Spectrum 48K, CBM 64.

Midnight Movie 11.55 pm Star Force Seven

Starring The Zurgs

After a desperate space battle only one fleet of heroes remain to prevent the invasion of earth. The future of humanity lies with you!

Written by Ian Soutar Special Effects Ian Soutar Directed Martin Edwardes Produced Argus Press Software Available for BBC, Spectrum 48K, CBM 64.

For mail order, write with cheque/P.O./card No. to: Mind Games, Argus Press Software Group, No. 1 Golden Square, London W1.

BrainWare

Last month you may have noticed that we started a new regular section called 'Brainware'. The format is very similar to our existing software review pages but it contains only strategy, adventure, and thinking game reviews.

Strategy and adventure games are playing a bigger and more important role in the software industry as more and more people get bored with the unoriginality of games that a lot of software houses produce, and the short length of time it takes before you get bored stiff playing them. So we decided to have a special section for all our readers that like to play strategy, adventure, or any other non-action games.

Also last month we started the first of a series about programming adventure games, it continues this month with more details on this exciting area of software development. Who knows? one day one of your programs may be reviewed on these pages!

Che Coldstyre GREEDY.

Only the bravest of the brave wear the King's gold; join them if you dare!

Simon Ainsworth.

king's guards kill you for cowardice.

You can type your commands in using full English only one verb can be used in each sentence. The game has a resonably large vocabulary so finding a permitted word is not difficult. Greedy dwarf has no graphical locations (at least none I found) which is a pity.

For keen adventurers greedy dwarf would probably be the correct medicine for boredom.

48K SPECTEUM (INCENTIVE

GREEDY DWARF

Runs on: BBC Model B
Made by: Goldstar
Price: £9.95

Not being a very experienced adventurer I started to explore the world of the greedy dwarf very warily. This game has done nothing but turn me even more against adventure games. You have the task of recovering three of King Ardanga's finest jewels which have just been stolen. The setting is a reasonable place, but what possesses the King to have mazes in his cellar beats me. The jewels in question did not steal themselves, but a 'greedy dwarf' named Arfa did and the King is seeking vengeance on this creature. Unable to resist the wealth that you will be rewarded, you set off after the jewels and Arfa's head. If you fail at your task, which you will, you must set out again. Also if you return back up to daylight without having completed the task, the

TEMPLE OF VRAN

Runs on: Spectrum 48 K
Made by: Incentive Software
£5.50

Temple of Vran is a follow up in the Ket Trilogy. It is a non-graphic adventure. After waiting for what seems hours for it to load I was asked to wait yet again then told my scores (luck, stamina and prowess) before the game could be started. Break could restart the game to try and raise the scores. Having typed in your command the program takes ages

to respond, whereupon you are given another place description. If an object is present it tells you which one, and next to it is a U.D.G. picture of this object. These objects may be taken or dropped. On various occasions animals, warts, or monsters may be encountered. When these are fought the game goes through a fighting routine. I have never been defeated, not even hit!

The game has a special score facility, and you can turn the keyboard beep on or off. The game may be saved at a certain point. A fair adventure but nothing

THE ORACLE'S CAVE

Runs on: 48k Spectrum, C64,

Oric

Made by: Dorcas Software

Price: £7.95

This is a pseudo real-time D&D game where you start off the adventure at the entrance to the Oracle's Cave. There are four levels to the cave, and as well as a graphic drawing of your current position, there is a map of the Cave permanently on-screen. To succeed in the cave you need to carry out a quest, collect a certain minimum amount of treasure, and finally vanquish the Oracle before leaving the cave system. And you have to achieve all this within a particular timescale — five game "days".

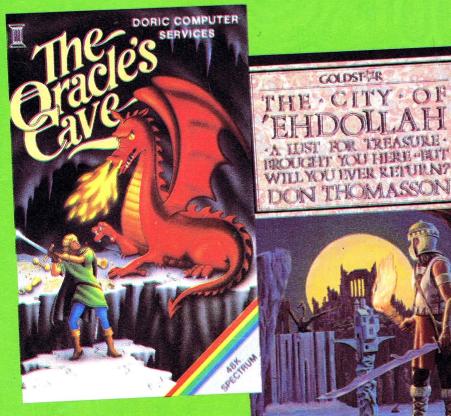
The game starts with a standard sort of message — "Cave Design in Progress" and then displays you, the hero. You are asked what you want to do, the maximum choices which you have at any time are: move, rest, use an article, explore, help abandon game. When you encounter a monster it is very nicely drawn and your options are to fight or

move.

A chart shows you how you are doing — eg what your energy level is, how many wounds if any you have sustained, what objects you are carrying, et cetera. Examples of some of the objects which you will find scattered around are weaponry, food, magic rings, a cloak and of course, treasure.

The packaging states that the average playing time is forty minutes with a maximum of one hour both of which seem reasonable estimates. Unfortunately they have more to do with waiting time than with entertaining action. The graphics are interesting to begin with but soon get wearisome as you see the same old things re-drawn all the time. The program is in BASIC which obviously does not help matters, and unfortunately there are one or two bugs still present in the program, such as when I wanted to used an article I was carrying and the program asked 'What do you want to use?'', . or, '''. I typed in a comma (no, I was not actual-

BrainWare



ly carrying one) and the program happily carried on

Having made those criticisms of the game, I still think it will very much appeal to younger players both of the shortness of playing time, its simplicity of use, and the fact that it should be quite easily modified.

THE CITY OF **EHDOLLAH**

Runs on: Spectrum 48 K Made by: Goldstar Price: £9.95

You have been brought to the ruined city of EHDOLLAH by a lust for treasure, but unfortunately this greed may lead not to fame and fortune but serve only to bring about your downfall. Among the ruins of this city lie many dreamed about treasures to recover, but your main aim is to find and capture the Sacred Ruby, guarded by Meglin the wizard. To accomplish this task you must kill Meglin. If you succeed you will be acclaimed throughout the known universe as 'Supreme Galactic Adventurer'.

Throughout your search you will encounter strange beasts in dark and mysterious areas, should you attack? or retreat to safety and conserve your precious energy? Combat is in real time so you must be quick to think over your next move, or else your attacker will decide for you. If you run out of stamina then the gods will claim you and you will have failed in your quest. To regain

stamina you must eat, but you only have six meals with you.

GOLDST R

If you make it alive and recover the Sacred Ruby, the hardest part is yet to come. Getting in may have proved tough but getting out is the hardest part of all.

The City of Ehdollah is an interesting new text adventure game which has over 100 words in its vocabulary. With the tape you get a booklet which gives a short history of the events surrounding the City of Ehdollah and helpful hints for novice adventurers. An enjoyable game.

THE FALL OF ROME

Runs on: Spectrum 48 K Made by: **ASP Software** £6.99 Price:

In 'The Fall of Rome' you command the resources of the Roman Empire in it's fight for survival against the eleven barbarian tribal groups of the north. You must also compete with the two empires of the east as they try to take advantage of your troubles.

. The lengthy instructions provided can cause some confusion at first but commencement of the game shows that the method of play is really very

You are shown a map of the area within the Roman Empire, and each province has a Roman name and it's own income, the amount of which varies from province to province. This income can be used to purchase and maintain

friendly legions, auxiliaries and cavalry.

The game is divided into 12 turns, each turn covering a five year period from 395 A.D. Working through each province in turn you must distribute your forces carefully in order to recover as many provinces as possible and resurrect the Roman Empire. At the end of each turn you will be informed how many provinces are recovered and how many are still under attack. At the end of twelve turns, the computer will calculate the value of all the provinces in which you have forces. The total value calculated is your score. The scores range from under 100 (total failure to over 160 (victory).

The fall of Rome is a time consuming strategic game which is a lot of fun, especially if you succeed. It is advisable however to write down the current position of each province as you go along, in order to calculate where your main forces should be situated and which areas are most at risk. An ex-





AT LAST 1 TAPE 2 MACHINES

COMMODORE 64

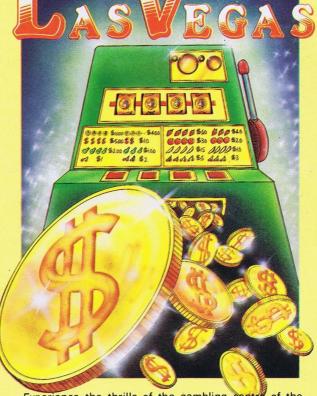
VIC 20



MINIPEDES

It is the height of summer and the garden is buzzing with bees and bugs. Minipede, a mutant mushroom monster advances relentlessly towards you, devouring everything in its path. 15 screens of fast and furious action make Minipedes a real challenge to the arcade enthusiasts.

Commodore 64 - VIC 20 16K J.S. or K.B. £5.95



Experience the thrills of the gambling centre of the world from the comfort of your own armchair. Both versions include features such as spinning reels, hold, number-feature nudges, gamble/collect, spin score and hi-score. The Commodore 64 version has additional features, nudge, reward lucky 3, step-a-win and hi-score tables.

As with any arcade machine the odds are stacked against you!

Commodore 64 - VIC 20 16K K.B. £5.95



TOM THUMB

Tom is trapped in a scrolling maze populated by loathsome creatures, guardians of the lost treasures of the Magezam. Six separate screens, five levels of difficulty and four player option provide an exciting challenge for the whole family. Another stunner from the author of **BONGO!**

(1 to 4 players)

Commodore 64 - VIC 20 16K J.S. £5.95



J.S. AND KEYBOARD £7.95



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COMMODORE 64

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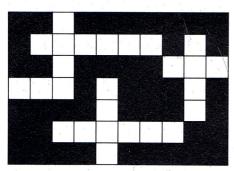
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PWZZILES

3. ABC

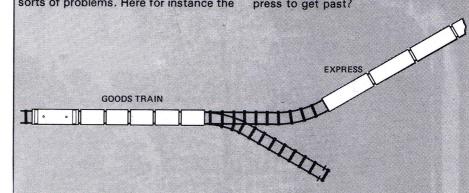
Here's a very simple crossword. There are 26 white squares, and 26 letters in the alphabet. Can you use each letter just once, and end up with seven words that are English and make some sense?



4. ONE HUNDRED LINES Somewhere in LNER country to

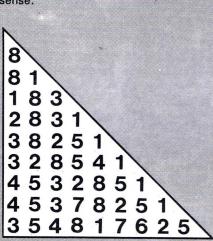
Somewhere in LNER country there is a single track railway which causes all sorts of problems. Here for instance the

express wants to overtake the goods train. The siding there can take three wagons only. Is there a way for the express to get past?



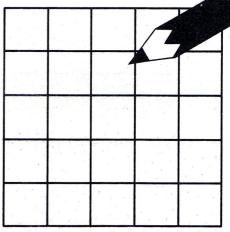
5. SIMPLE ADDITION

Substitute letters for the numbers and you should be able to get from your favourite person to a feature of Roman architecture with each word making sense.



7. FULL MARKS

In this version of noughts and crosses you play yourself. All you do is put five crosses and three noughts into the grid so that no cross is in direct line with any nought — down, across or diagonally.



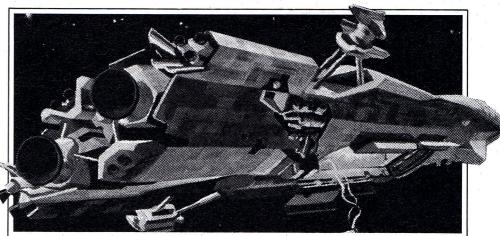
8. TERM TIME

Can you get from RISE to FALL in four steps, changing one letter at a time, keeping it clean and English throughtout? How about BOOT to LACE in five steps? SLOW to FAST in six steps?



6. HISTORY LESSON

Two people once stood on a front page of a newspaper dated November 11th, 1918, facing each other, in broad daylight, yet they were unable to see each other. They had perfect eyesight — what went wrong?



9. PHYSICAL TRAINING

Imagine you are driving the interstellar space train from Zeldoth to Dartus. The train leaves Zeldoth at 18.30 (Earth Standardised Time). 3 minutes later it warps into sector Five and takes on teleported passengers at Orius, Nebolus and Kor. By 18.40 (EST) the space

loco is docking alongside Ellacotus where transhipment of cargo necessitates a delay of 4 minutes.

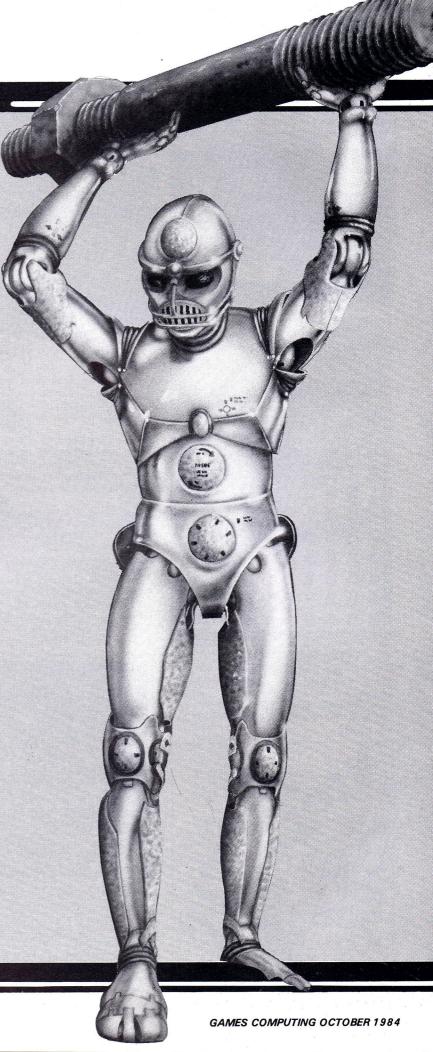
Thanks to new developments in the Geldon overdrive however, the train arrives at Dartus only one minute late — at 18.59. Can you tell us the name of the train driver though?

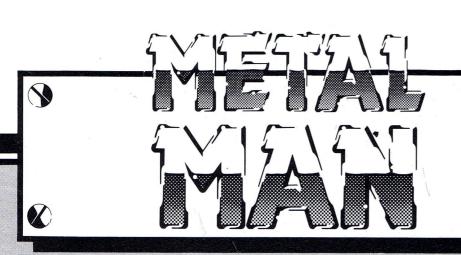
All was peaceful in Tin Town, the silver moon shone a blue light into the metal works. But wait!! — horror of horrors, lurking in the shadows of the metal works is none other than Tin Town's most wanted criminal, Rusty Bolt the mutant builder (so called because of the horrific injuries he received from a wet tin opener).

The mutant builder has kidnapped three creepy-crawlies and is keeping them captive in a large jam jar. Creepy-crawlies are protected by Tin Town law. The alarm is raised and mild mannered steel worker Nick. L. Alloy once again must become METAL MAN!

RUNdown

HOHAOWII .			
Lines	Action		
40-120 130-273 275-375	Redefine characters. Set up screen display. Main loop. Falling routine, makes M.M. fall until he reaches the bottom of the screen, a piece of metal, a toadstool, an egg, or a spike.		
576-630	Make screen flash and music play if an egg is collected.		
635-695	Death routine, redefines M.M. and plays music.		
695-750	Prints score and number of creepy-crawlies freed, starts or finishes the game.		
775-820	Makes sure that MM doesn't go off the edge of the screen.		
845-880	Check to see if an egg is in front, or behind, of MM.		
885-940 945-1000	Title. Moves the bug and Mutant builder. Plots colour, eggs and toadstools.		
1001-1090	Check to see if the builder has killed you.		
1135-1204 1205-1270 1280	Creepy crawly type 1. Creepy crawly type 2. Check if all the creepy- crawlies have been		
1290	freed. Add to score and number of freed creepy-crawlies.		
1291-1360	End of game when all creepy-crawlies are free. Play tune and start or finish program.		







```
1 GRAB
 5 REM
 10 REM FOR THE ORIC/ATMOS 48K
 15 REM
 16 REM
17 REM
   REM
 18 REM
           **************
              MECCANO - MAN
 19
    REM
 20 REM
           *****
 21 REM
 22
           BY G.D. MORRIS MAY 1984
    REM
 23 RFM
 24 REM
    SC=0:J=0: QB=0 :CLS:RESTORE
 30 L1=3:M2=27:L2=7:M1=11 :PRINTCHR$(20)
 31
    REM
 35 REM/\//\ DEFINING GRAPHICS/\//\
 36 REM
 40 A1=46615: A2=46623: A3=46839: A4=46599: A5=46607: A6=464
47
 50 FORT=0T07
 60 A1=A1+1:A2=A2+1:A3=A3+1:A4=A4+1:A5=A5+1:A6=A6+1
 70 READA: POKEA1.A: READB: POKEA2.B: READC: POKEA3.C: READD:
POKEA4,D:READE:POKEA5,E
 AM READF: POKEA6.F
 90 NEXT
 100 DATA 42,0,63,1,32,30,63,63,33,3,48,45,42,0,18,21,4
2,51,42,0,12,63,63,45
110 DATA 42,0,18,19,50,45,21,21,33,2,16,51,42,42,63,2,
16,45,21,21,0,6,24,30
 111 B1=46711: B2=46367: B3=46415: B4=46591: B5=46383
 112 FORT=@T07:B1=B1+1:B2=B2+1:B3=B3+1:B4=B4+1:B5=B5+1
 113 READM.N.O.P.Q:POKEB1.M:POKEB2.N:POKEB3.O:POKEB4.P:
POKEB5.Q
 114 NEXTT
115 DATA30,33,18,0,0,63,18,12,0,12,45,30,30,12,30,63,6
3,45,30,30,63,45,45,30,63
120 DATA63,63,30,12,12,63,18,18,0,12,30,45,0,0,63
 130 GOSUB890: GOSUB1670: GOSUB1370
 200 CLS
 205 REM /\/\\ SET-UP SCREEN/\/\\
 210 X=2:Y=13
220 PLOT1,1,"
 230 FORA=1T026:PLOT1,A,".":NEXTA:FORB=1T036:PLOTB,26,"
 ": NEXTB
271 REM
 273 PLOT0,25,1
 276 REM +++++++++++++++++
 278 REM
 280 A$=KEY$: IFJ>5ANDX=35ANDY=24THEN GOSUB1140
 290 IFY=24THEN300
 295 IFSCRN(X,Y+1)<>95ANDSCRN(X+1,Y+1)<>95THENGOSUB430
 300 IFA$=","THENPLOTX,Y," ":X=X-1
310 IFA$="."THENPLOTX,Y," ":X=X+1
320 IFA$="a"THENPLOTX,Y," ":Y=Y-3
                              ":Y=Y-3:SOUND1,Y*Y,0:PLAY1,
0,2,1000
330 IFA$="z"THENPLOTX,Y," ":Y=Y+1:PLAY1,1,1,600
 340 IFA$=""THENGOSUB950ELSEGOSUB780
 350 GOSUB845
 360 PLOTX, Y, "AB": GOSUB950
 370 GOTO280
 375 REM
 425 REM /\/\/\ FALLING ROUTINE /\/\\
430 IFY=24THENRETURN ELSE REPEAT:PLOTX,Y," ":PLOTX,Y+1,"AB"
 434 Y=Y+1
```

435 TT=SCRN(X+1,Y+1):GG=SCRN(X,Y+1):SS=SCRN(X,Y-2):NN=

```
SCRN(X+1,Y-2)
440 IFNN=640RSS=64THENGOSUB570:PLOTX,Y-2," ":PLOTX-1,
Y-2,4
450 IFTT=67THENZAP:GOTO640
 460 IFGG=67THENZAP:GOTO640
 470 IFTT=64THENGOSUB570:PLOTX+1,Y+2," ":PLOTX,Y+2,4
475 IFGG=64THENGOSUB570:PLOTX,Y+2," ":PLOTX-1,Y+2,4
 480 IFSS=95THENPLOTX,Y-1,"_":SC=SC+5
 490 IFGG=36THENGOTO640
 495 IFTT=36THENGOT0640
 510 SOUND1,Y*Y,0:PLAY1,0,1,1000:GOSUB950
530 IFTT=38THENEXPLODE:WAIT90:PING:GOTO640
 535 IFGG=38THENEXPLODE: WAIT90: PING: GOTO640
 560 UNTILSCRN(X,Y+1)=950RSCRN(X+1,Y+1)=950RY=24
 565 RETURN
 570 REPEAT
 574 REM
 575 REM /\//\ GET AN EGG /\/\/\
 574 RFM
 590 PAPER7 :: WAIT1 : PAPER1: U=U+1: MUSIC1, 3, U, 0: PLAY1, 0,
 ,800
 600 UNTILU=6
 610 U=0:INK4:PAPER0:SC=SC+100:J=J+1
620 IFJ>5 THENZAP:WAIT3:PING
625 PLOT0,25,1
 630 RETURN
 634 REM
 635 REM/\/\/ DEATH ROUTINE /\//\
 637 RFM
 640 FORQ=8T01STEP-1:MUSIC1,1,Q,0:PLAY1,0,1,2000:WAIT20
NEXTO
 650 MUSIC1,0,4,15:VV=46599:XX=46607
 655 FORT=ØT07
 660 VV=VV+1: XX=XX+1
 670 POKEVV, 0: POKEXX, 0: WAIT5
 480 NEXTT
 690 MUSIC1,1,1,0:PLAY3,7,1,3000:WAIT80:CLS:PRINT:PRINT
PRINT: PRINT: PRINT
 694 RFM
 695 REM
              /\/\\ SCORE + NEW GAME ?/\/\\
 696 REM
697 INKO: PAPER1
 700 PRINT" you scored ";SC+QB;" points"
705 INK7:PAPER0
 700 PRINT" and freed ";QB/10;"creepy crawly's"
720 PRINT:PRINT" another game (y/n)?"
730 A$=KEY$: IFA$="y"THENPRINTCHR$(17);CHR$(6): PRINTC
 R$ (20): GOTO10
 740 IFA$="n"THENCLS:PRINTCHR$(17):CHR$(6):GOTO1660
 750 GOT0730
 771 REM
775 REM /\/\/\ STAY ON SCREEN /\/\/\
 776 REM
 780 IFY>24THENY=24
 790 IFY<2THENY=2
 800 IFX>35THENX=35
     IFX<2THENX=2
 810
 820 RETURN
 825 REM
 845 REM /\//\ EGG CHECK /\/\/\
 846 REM
 850 IFSCRN(X-1,Y)=64THENPLOTX-1,Y." ":PLOTX-2,Y.4:GOSU
 860 IFSCRN(X+2,Y)=64THENPLOTX+2,Y," ":PLOTX+1,Y,4:GOSU
B570
 870 IFSCRN(X+2,Y+1)=64THENPLOTX+2,Y+1," ":PLOTX+1,Y+1,
4: GOSUB570
 875 IFSCRN(X,Y+1)=64THENPLOTX,Y+2," ":PLOTX-1,Y+2,4:GO
SUB570
 880 RETURN
 881 REM
 885 REM /\/\\ TITLE /\/\\
 886 REM
 890 CLS:PRINT:PRINT:PRINT:PRINT:PRINT:PRINT:PRINT:PRINT
T: PRINT: INK7: PAPERØ
```

900 PRINTCHR\$(4); CHR\$(27); "J

_ meccano - man



```
INT
910 PRINTCHR*(4);CHR*(6);CHR*(17)
920 PRINT:PRINT:PRINT"
PRINT:PRINT:PRINT:P
                                                                                             1313 PRINT"
                                                                                                                   of the creepy crawly's'
                                                                                             1315 INK7: PAPERØ
1320 PRINT: PRINT"
                                                        by G.Morris": PRINT:
                                                                                             1320 PRINT:PRINT" with a score of ";SC+QB
1330 PRINT:PRINT" press 'z' to play or 'r' to end"
1340 A$=KEY$:IFA$="z"THENPRINTCHR$(20);CHR$(17);CHR$(6
                    For Games computing"
RINT
 921 PLOT18,15,"AB"
940 RETURN
                                                                                            ):GOTO10
 941 REM
                                                                                             1350 IFA*="r"THENPRINTCHR*(6); CHR*(17): GOTO1660
1360 GOTO1340
 945 REM /\//\ MOVE BUG + BUILDER/\//\
                                                                                              1364 REM
 946 REM
 950 E=INT(RND(1)*8):W1=INT(RND(1)*30):PLOTL2,L1,"*"
955 PLOTL2+1,L1,4:PLOTL2-1,L1-1,4:PLOTL2-1,L1,6
960 PLOTL2,L1-1," "
                                                                                             1365 REM /\/\\ INSTRUCTIONS/\/\\
1366 REM
                                                                                             1370 PRINT: PRINT: PRINT: PRINT" in this game you
 970 IFE=2THENPLOTL2,L1-1,"@":PLOTL2-1,L1-1,7:PLOTL2+1,
                                                                                           meccano-man'
1375 PAPER6
L1-1,4
 1380 PRINT:PRINT" must free the creepy crawly's,"
1390 PRINT:PRINT"from the jar down in the bottom corne
 L1-1.4

990 IFL1=20THENPLOTL2,L1," ":L1=3:L2=INT(RND(1)*32)+3

1000 PLOTM2,M1,"$":PLOTM2+1,M1,4:PLOTM2-1,M1-1,4:PLOTM

2-1,M1+1,4:PLOTM2-1,M1,5

1001 EE=SCRN(M2,M1-1):FF=SCRN(M2-2,M1):RR=SCRN(M2+2,M1
 L1-1.4
                                                                                             1400 PRINT: PRINT" you can only free them one at a time
                                                                                             1410 PRINT: PRINT" (and only when you have eaten 6 bug
                                                                                             eggs)"
1420 PRINT" You score points by eating eggs and by fr
 1002 PLOTM2,M1+1,"_"
1004 IFEE=65THENPLOTX,Y,"AB":GOTO640
1005 IFFF=65THENPLOTX,Y,"AB":GOTO640
1006 IFRR=65THENPLOTX,Y,"AB":GOTO640
1007 IFFF=66THENPLOTX,Y,"AB":GOTO640
1008 IFRR=66THENPLOTX,Y,"AB":GOTO640
1015 IFEE=66THENPLOTX,Y,"AB":GOTO640
                                                                                            eeing the creepy crawly's
                                                                                           1430 PRINT" by jumping up and touching the mecca no you can pull it down"
1440 PRINT" and score more point's"
1450 PRINT: PRINT" but beware!! you are not alone on the
                                                                                           1450 PRINT:PRINT " but beware:  you are not e building site"  
1460 PRINT:PRINT:PRINT"  push any key"  
1470 IFKEY$=""THEN1470 ELSESHOOT:PAPER2  
1480 CLS:PRINT:PRINT:PRINT"  a mutant bui
 1040 IFM1<4THENPLOTM2,M1," ":M1=20:M2=INT(RND(1)*32)+3
 1050 L1=L1+1
                                                                                                                                            a mutant builder is cons
 1060 M1=M1-1
1090 RETURN
                                                                                            tantly
                                                                                                                laving mecca
                                                                                            no'
 1134 REM
1135 REM////\ CREEPY-CRAWLY/\//\
                                                                                             1490 PRINT: PRINT" you can stand on the meccano he lay
 1136 REM
1137 REM////\ TYPE 1/\//\
1138 REM
                                                                                              1500 PRINT: PRINT" but bump into him and you've had i
                                                                                                                            a helpful bug goes round laying
                                                                                             1510 PRINT: PRINT"
 1140 V=INT (RND(1)+2)+1
1145 IFV=2THEN1210
                                                                                            1515 PRINT" piece of meccano now and then , but watch out"
 1150 FORG=34T038TEP-1
1155 IFG<19THENPLOTG+3,23,4
 1156 PLOTG-1,23,1

1160 PLOTG-23,"O\":WAIT2

1170 PLOTG,23,"-O-":WAIT2

1180 PLOTG,23,"\O\":WAIT2

1190 PLOTG,23,"\O\":WAIT2

1190 PLOTG,23," ":SOUND1,G*G,0:PLAY1,0,4,70
                                                                                             1520 PRINT: PRINT" that you don't jump on any poisionou
                                                                                            s toadstools that he drop
                                                                                              1530 PRINT"
                                                                                                                  walking into them is quite harmless thou
                                                                                              1540 PRINT"
                                                                                                                  falling from great hieghts
  1200 NEXTO
                                                                                                                                                                              is
                                                                                            painless
  1204 GOTO1280
                                                                                              1550 PRINT: PRINT" so is falling onto the fence, if you
  1205 REM
                                                                                              dont hit the spikes!"
1560 PRINT:PRINT" press any key's for controls"
1570 IFKEY$=""THEN 1570ELSEPING:PAPER5
 1206 REM
         REM/\//\ TYPE 2 /\//\
  1210 FORL=23T03 STEP-
 1210 FURL=23103 STEFT1
1220 SOUND3,L*L,0:PLAY7,0,1,9000
1225 PLOT 33,L+1,4:PLOT 36,L,4:PLOT32,L,3
1230 PLOT33,L,"/O\":WAIT2
1240 PLOT33,L,"\O\":WAIT2
1250 PLOT33,L,"\O\":WAIT2
                                                                                              1580 CLS:PRINT:PRINT:PRINT:PRINT:PRINT" the controls
                                                                                            are as follows"

1590 PRINT:PRINT" a= jump"
                                                                                              1600 PRINT:PRINT" z= dig"
1610 PRINT:PRINT" <= left"
1620 PRINT:PRINT" >= right"
  1260 PLOT33,L,
                                                                                              1630 PRINT: PRINT: PRINT: PRINT: PRINT: PRINT"
  1270 NEXTL
                                                                                                                                                                      good luc
  1280
         IFQB=20 THENGOTO1297
 1290 SC=SC+50:QB=QB+10:J=0:PING:RETURN
1291 REM //// WIN GAME ////
                                                                                              1640 PRINT:PRINT" press any key"
1650 IFKEY$=""THEN1650 ELSEINK4:PAPER0:RETURN
                                                                                                     PRINTCHR$ (20) : PING: END
 1295 REM
1297 CLS: PRINT:PRINT:PRINT:PRINT:PRINT:PRINT:PRINT
                                                                                              1664 REM
                                                                                              1665 REM/\/// TITLE MUSIC/\///
  1298 PAPER:
                                                                                              1666 REM
  1300 PRINTCHR$ (4); CHR$ (27); "N
                                                              congratulations
                                                                                              1670 FORG=100T01STEP-5
                                                                                              1684 PLOT3,9,INT(RND(1)*6)+1:PLOT3,10,INT(RND(1)*6)+1
1685 SOUND1,6,0:PLAY1,0,1,1000:SOUND1,G+20,0:SOUND1,G+
  1305 PRINTCHR# (4): FORY=BT01STEP-1
  1306 FORC=100T01STEP-15: V=INT(RND(1)*7)+1
  1307 SOUND1,C+Y*30,0:SOUND1,C+Y*5,0:SOUND1,C*Y,0:PLAY1
                                                                                            50.0
                                                                                              1690 NEXT
  0,1,1000: INKV
1308 NEXTC
                                                                                              1694 IFN=1THENEXPLODE: CLS: INK0: RETURN
1695 N=1:FDRG=1T0100STEP5: 90T01685
  1309 NEXTY:CLS:PRINT:PRINT:PRINT:PRINT:PRINT
1310 PRINT:PRINT:PRINT:PRINT" you have free
                                                                                              1700 END
                                                    you have freed all":PR
```

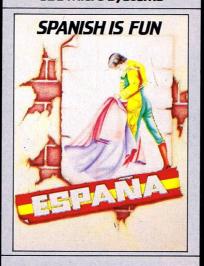
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ADVENTURE



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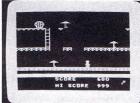


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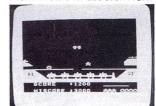
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ANSWERS

1. THAT'LL TEACH YOU

There is of course a logical solution. Since $1247 = 178 \times 7 + 1$ and if you imagine the doors in sets of 7 - first A-G then H-B, then 178 sets will finish at B. One more takes you to A. I'd better check that. 1,2,3,4,5...

2. GUEST SPOT

The ladder does tend to rise with the ship - so 2 rungs only.

He cannot reach the button for the 14th floor — he is a midget working at the local circus. He can just reach the 7. 1.5 and 0.5

3. ABC



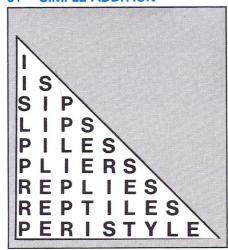
6. HISTORY LESSON

The newspaper was under a door with one stood each side of it. "The things we do for Lou and Les" said one. And the other agreed.

4. 100 LINES

The poor old goods train driver backs into the siding and unhooks 3 wagons, then moves some way down the line. The express comes along, passes the siding, backs up and picks up the 3 wagons, moves them out and backs down the line. The goods train nips into the siding. The express, now hopelessly late, unhitches the wagons and moves off. The goods train eventually emerges and goes back in search of three spare wagons back up the line somewhere. Things improved after nationalistion.

5. SIMPLE ADDITION



7. FULL MARKS

	X	X		
		To the state of th		0
X				
X	X		i i	
1 1/2			0	0

8 TERM TIME

.	I PINIAL LIL	VIL.
RISE	BOOT	SLOW
RILE	LOOT	SLOT
FILE	LOOK	SOOT
FILL	LOCK	LOOT
FALL	LACK	LOST
	LACE	LAST
		FAST

9. PHYSICAL TRAINING

For those of you asleep at the back; try the first line again. If still in doubt, check the name tag sewn onto your school blazer.

00 .00

Here is the long awaited second part of our series on writing adventures. This month the subject is setting up the scenario.

Now that you have created the map for your game, you must decide what objects you want to find in the different locations and any responses such as 'O.K.' or 'I can't go in that direction' which might be given more than once. These will then need to be placed into DATA statements and I would recommend locating the data at the very end of the program so that it is easy to see where any mistakes occur. Listing 1 should give you the idea.

One difficulty you might find is that your descriptions may be too long to fit into DATA statements. Owners of VICs, and C64s in particular should try to keep the length of their descriptions short so that they will fit into the DATA lines. Spectrum, and BBC owners are more fortunate, although very long descriptions will eat up memory space in BBCs and VICs (unless you have managed to use a data compression technique).

Our next task is to DIMension the arrays and READ the DATA into them. Supposing the game has 30 locations, 24 objects and 40 common phrases, then listing 2 shows one method of reading this data. You will notice that I have used single letter variable names. It is possible to use meaningful names on machines like the Electron, but generally in an adventure game you are trying to fit a large volume of text into the computer and you will need to save every byte of memory. I have used integer arrays (A% rather than A) because in most machines they use much less memory and often run faster as well, if you use a machine which does not support these, just leave the

Variables Used

% sign off.

A\$(X)

A%(X,Y) holds the map (as explained last month) B\$(X) holds the description of objects B(X)holds the pointer to the location found C\$(X) holds the word recognised D\$(X) holds the phrases.

locations

holds the description of

Thus going North from location 1 will take you to location 2, South to location 3, East to location 5 etc.

Listings 1 and 2 will work for the majority of computers, but Spectrum owners will need to make the following changes:

a. String variables in DATA statements MUST be included in inverted commas. Thus line 10010 will

10010 DATA yard",2,3,5,7 grave-

b. When DIMensioning the arrays, you will need to separate the arrays with colons and in addition, string arrays will need a second number to

indicate the maximum number of letters it can hold. Thus line 20 could be changed to:

20 DIM a\$(30,100): DIM a(30,4): DIM b\$(24,100): DIM.....

This means that each location's description can hold a maximum of 100 letters

c. Change all capital letters from variable names into small letters.

Listing 1

10000 REM * * locations followed by map * * 10010 DATA in a graveyard,2,3,5,7 20000 REM * * objects found * * 20010 DATA a crucifix,4,CRUCIFIX 30000 REM * * * common phrases 30010 DATA not likely, O.K.,

Listing 2

10 REM * READ the DATA into arrays

ays * * 20 DIM A\$(30), A%(30,4), B\$(24), B%(24),C\$(24),D\$(40)

FOR X = 1 TO 30

40 READ A\$(X)

50 FOR Y = 1 TO 4

60 READ A%(X,Y)

70 **NEXT Y,X**

80 FOR X = 1 TO 24

90 READ B\$(X),B%(X),C\$(X)

100 NEXT X

FOR X = 1 TO 40 110

120 READ D\$(X)

130 NEXT X

A major problem you are likely to encounter when you first attempt to write an adventure game is that of jumping out of loops. Having been brought up with MICROSOFT basic, I found it difficult at first to convert to BBC BASIC, where only 10 nested FOR NEXT loops are permitted and I rapidly ran into problems of TOO MANY FOR'S IN LINE 1000 errors.

I would strongly advise you to plan your program structure very carefully so that if you do jump out of a loop, you jump back into it at the same point and that your subroutine does not in itself include more than 1 jump.

Oric owners have a statement available which can get them out of this difficulty. POP will remove the last pointer from the stack. It is much better, however, to write a program which is well structured as it makes debugging far easier.

Listing 3 shows one method of writing the main control loop. I have chosen to use the variable P% as a pointer to the current location, so that the program starts in location 1, although there is no reason why you can't start at any other location.

This listing shows the basic idea, but will need to be adapted for other routine REPEATs the loop until the score is 100 percent:

repeat clear the screen print description of location print directions you can go in print description of objects input your action call procedure to split input sentence up into two words call procedure dependent upon your

first word

until score = 100%

Machines which don't support the REPEAT UNTIL loop should delete line 160 and replace line 1000 with:

IF SCORE < 100 THEN GOTO 170

You could also introduce colour into the display using for example:

180 PRINT CHR\$(129) "I can go" will produce red text on BBC and ORIC, other machines should use INK, BRIGHT etc as appropriate.

Line 320 calls PROCobjects which I will deal with next month in detail. Most machines do not have procedures and therefore you should replace this line with GOSUB line number. In a similar way, PROCword is called from the main loop, where it splits your input into two words.

If, for example, you INPUT the response EAT FOOD when prompted 'What shall I do?', the program will send the input string F\$ to the procedure (or subroutine) which will split it into two words and return the program to the following line (360). Thus the variable G\$ will hold the word 'EAT' and H\$ 'FOOD'.

Listing 3

140 REM \star \star Main control loop. BBC/ELECTRON version \star \star 150 LET P% = 1 160 REPEAT 170 CLS: REM Commodore users change this line

180 PRINT " I am "; A\$(1) 190 PRINT "I can go ' 200 LET E\$ = ''''

210 IF A%(P,1)>0 THEN LET E\$ = "North"

220 IF A%(P,2)>0 THEN LET E\$ = E\$ + ''South'' 230 IF A%(P,3)>0 THEN LET

E\$ = E\$ + ''East'

300 PRINT E\$:REM print directions 310 PRINT "I can see: "

320 PROCobjects 330 PRINT "What shall I do ";

340 INPUT F\$

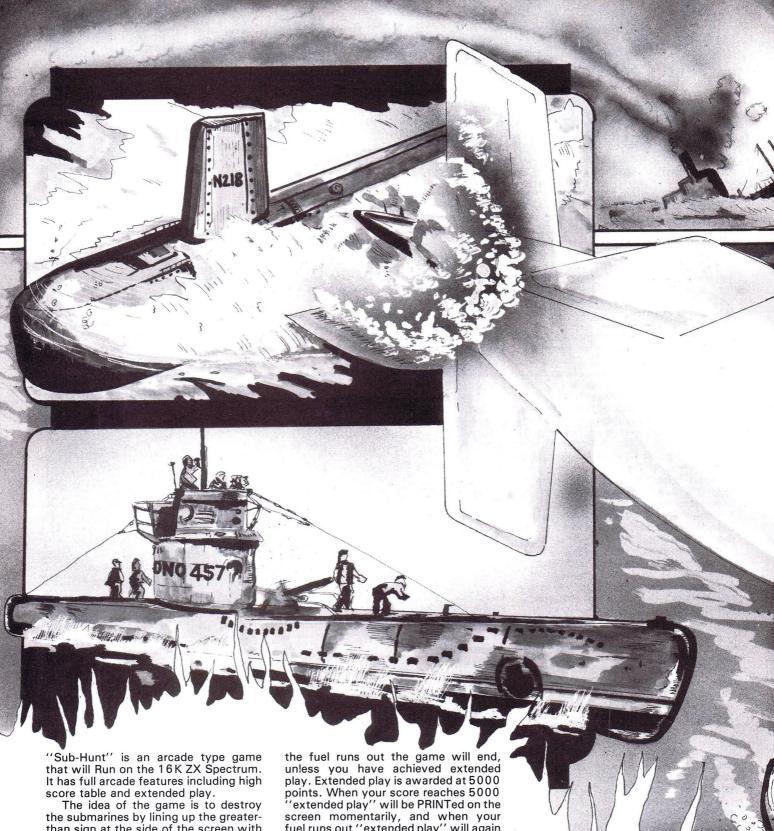
350 PROCword

360 IF G\$ = "N" THEN PROC north 370 IF G\$ = "EAT" THEN PROCeat 1000 UNTIL SCORE = 100

1010 PROCwin

Next Month

Next month, I shall look at these procedures in more detail and explain how to move around the different locations.



than sign at the side of the screen with the submarine and then dropping your depth charge. The depth charge will explode at the height set by the greater-than sign. Use keys 'Q' and 'Z' to move the greater-than sign up and down the side of the screen respectively. Key 'I' will drop a depth charge.

At the top of the screen is PRINTed two scores. Your score and the high score. If your score is greater than the high score, your score will go white. When you hit a submarine you will be given points; the deeper the submarine is the more points you will get. You will get double points if you hit the submarine in the centre.

At the side of the screen is a fuel scale that will gradually go down. When

fuel runs out "extended play" will again be PRINTed and you will be given twice as much fuel as you had when you reached 5000 points; once into an extended play your fuel will be PRINTed in red.

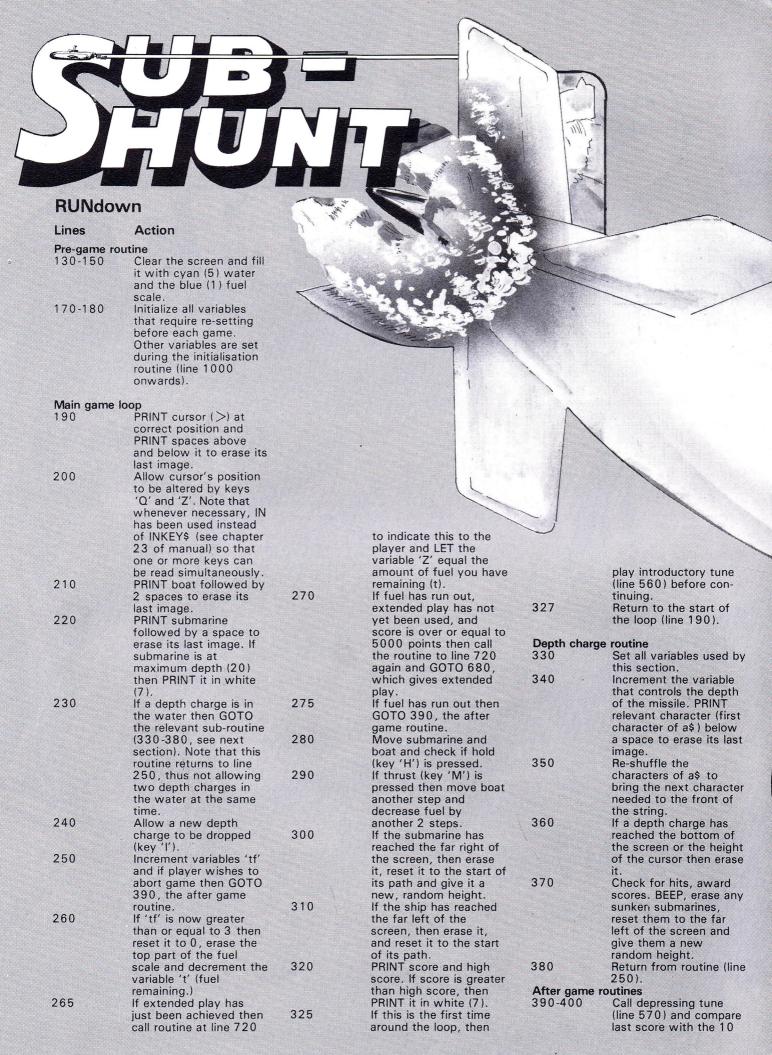
Occasionally a white submarine will appear at the bottom of the screen. This is a bonus 'Ghost Sub' and it is worth 1000 points or even 2000 if you can hit it in the centre. If you press key 'M' your ship will thrust but you will use up a lot more fuel.

When the game starts, a tune will be played. A different tune will be played at the end of the game.

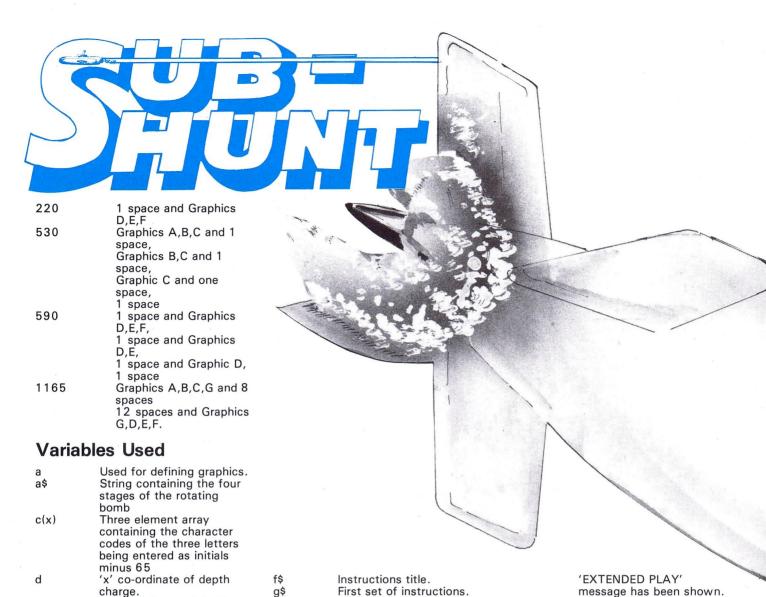
When the game has finished, providing your score is greater than 0 and you are in the top ten scores, you will be asked to enter your initials. The letters will rotate in alphabetical order, forwards or backwards, when you press keys 'Q' or 'I'. When the correct letter is selected, press key 'M' and go on to the next letter. When you have entered all three initials, the high score table will be displayed. The initials that you have just entered will appear on the table in white.

Another game will start after 10 seconds or when any key is pressed.





aphic inverse spaces, 1 ce, 1 inverse space phics A,B,C and 2	
creat short ones 1050-1110 Data 1130-1160 Initial conta 1165 Initial and thold initial are rethes \$580. Graphics Lines Grap 130 29 in space	19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(preceeded by 0's if necessary) and initials of top 10 players. PRINT latest score initials in white. PAUSE (10 seconds), clear the screen and start a new game. Play before game 'cheery' tune. Play after game 'depressing' tune. Tow on words 'sub hunt' behind the submarine (line 580) which then chugs off (line 590). PRINT the first sheet of instructions in teletype style. Wait for a key press then PRINT the second sheet of instructions in teletype style. Wait for a key press then clear the screen and RETURN (line 1170).	routine Decrease extremely large figure (z). Increase extremely small figure (z). Re-draw fuel scale to the required height. Reset variables. GOTO 280. IDED PLAY' routine Set PAPER colour to cyan (5) PRINT and erase the words 'EXTENDED PLAY' five times. Set PAPER colour back to green (4). RETURN. Set screen colours Create graphics. Note
550 Game tunes 560 570 Instructions 580-590 620-660 670-675	681 685 690-700 710 PRINT 'EXTEN 720 730-780 -790 800 Initialise 1010
held in the table in turn. If the score does not rank then GOTO 530. Clear the screen. PRINT instructions in teletype style. Note that in all such routines a key press will terminate the effect and simply PRINT (though without colour) the remaining text. Form the arcade style entering of the initials. Line 430 PRINTs the letters, lines 440-460 alter them according to key presses, line 470 is a simple delay loop, line 480 fixes an initial, moving to the next, and line 490 returns to line 430 completing the cycle.	Shift all the scores in the table below the latest one down 1 position in the table, discarding the lowest score. Place latest score and initials in the table at the correct point. Tow on words 'todays greatest' behind the ship, which then chugs off. PRINT scores
410 420-422	510-520 530 540 GAMES COMP



other use). pf R 1:7,0: INK 0
265 IF s>=5000 AND pf=0 THEN LET pf=1: GO SUB 720: LET z=t
270 IF t=0 AND ef=0 AND s>=5000 THEN GO SUB 720: GO TO 680
275 IF t=0 THEN GO TO 390
280 LET ps=ps+1: LET pb=pb-1: IF INKEY\$="h" THEN PAUSE 10: PAUSE 0
290 IF IN 32766=251 THEN LET pb=pb-1: LET tf=tf+2
300 IF ps=27 THEN PRINT PAPER 5;AT hs,ps;" ": LET ps=1: LET hs=INT (RND*15)
+6

10 IF pb<=0 THEN PRINT AT 3.pb;" ": LET pb=27
310 IF pb<=0 THEN PRINT AT 3.pb;" ": LET pb=27
320 PRINT INK (s>d(1) AND d(1)>0)*7;AT 0,1;"SCORE ";s;AT 0,25-LEN (STR* d(1));
INK 0;"HIGH ";d(1)
325 IF sf=0 THEN GO SUB 560: LET sf=1
327 GO TO 190
330 LET f=1: LET d=4: LET dc=pb+1:
340 LET d=d+1: PRINT PAPER 5;AT d,dc;a*(1);AT d-1,dc;" "
350 LET a*=a*(2 TO)+a*(1)

'y' co-ordinate of depth

containing the 11 highest

Eleven by 3 element array

containing the initials of

Flag to show if extended

charge has been dropped.

Control variable of delay

loop (independent of its

play has been awarded

High score table title

Flag to show if depth

the 11 high scorers.

Eleven element array

charge.

scores.

(1 = yes)

ĥс

hs

hŚ

i\$

j\$

kŚ

1\$

m\$

n

pb

First set of instructions. Height of cursor. ps Height of submarine. Second set of instructions. S Terminator of first screen sf of instructions. Second screen of instructions. t Terminator of instructions. High score instructions title. High score instructions. General purpose control tf variable. Position of latest score in table. 'x' co-ordinate of boat. 7 Flag to show if

message has been shown. 'x' co-ordinate of submarine. Score of current player Flag to show if this is the first revolution of the main loop. Fuel remaining: Also corresponds to the 'y' coordinate of the next points of the fuel scale to be erased. Counter of number of times the main loop has been executed: used in decreasing the players fuel. Value of 't' when extended

play achieved.

360 IF d=hc OR d=21 THEN LET f=0: PRINT PAPER S;AT d,dc;" "
370 IF hc=hs AND hs=d AND (dc=ps+1 OR dc=ps+2 OR dc=ps+3) THEN LET s=s+(10*hs*(1+(dc=ps+2)))+(hs=20) AND 0(hs=20 AND dc=ps+2)*800: BEEP .1,hs: PRINT PAPER 5;A
T hs,ps;" ": LET ps=1: LET hs=INT (RND*15)+6
380 GD TD 250
390 GD SUB 570: FOR p=: TD 10: IF s)d(p) THEN GD TD 410
400 NEXT p: GD TD 530
410 CLS

390 GD SUB 570: FGR p=1 TO 10: IF s)d(p) THEN GO TO 410
400 NEXT p: GO TO 530
410 CLS
400 NEXT p: GO TO 530
410 CLS
420 FGR n=1 TO 21: PRINT 1*(n): BEEP .005, 30-(1*(n)="")*30: NEXT n: PRINT ''
: BEEP .05, 20: PLOT 78, 167: DRAW 88, 0: FGR n=1 TO 216: PRINT m*(n): BEEP .005,
30-(m*(n)="")*30: IF INKEY*<\"" THEN PRINT m*(n+1 TO): SO TO 425
422 NEXT n
425 NEXT n
425 NET n
426 NET n
427 NET n
427 NEXT n
428 NET n
428 NET n
429 NEXT n
420
dc

d(x)

ef

e\$

f

d\$ (x,y)



ROCKINANT BOCKINANT

This month Simon Rockman the hair brained hacker is at it again with the QL and a new film from Virgin featuring a 12 foot high Pac-Man!

This "Rockman Files" is being written on a Sinclair QL using the "Quill" word processor, partly to prove to myself that it works and partly to test the TYEPRO RS232 to Centronics interface

Quill has developed a poor reputation, it isn't as bad as a lot of people have been saying. It is however very slow, so perhaps my expectations are

lo₩er than other peoples. I have just received the first issue of QLUB news. This is the newsletter of the official QL user group. Run for Sinclair by Psion, it provides support for the bundled packages and is supposed to be an information exchange. Issue 1 is pathetic, three sheets of unfilled waffle. The big news item is that 65% of QL owners have joined QLUB. I reached for my calculator. Sinclair claim to have sold 15,000 QL's. 65% of 15,000 is 9750. Each of these members paid £35 so QLUB's income has been £341,250. The result is very disappointing and can't have taken much more than a day to prepare, let alone the six months or so since the computer was launched.

"K-OS" at Sinclair

The newsletter is divided into many paragraph long sections. One explains that some QLs were shipped with ROM cartridges and that these would be replaced by the end of August. This is not really news, I got my ROM refit voucher the week before the newsletter arrived. There is a bit of general hype about the Psion packages and some hints on filling in the complaint form to Psion. The next page is full of hype for Sinclair and an appeal for material to fill the newsletter - they need it! There is a promise that QLUB members will hear about the new developments in advance of the public. However there is no mention of hard disks, SuperBASIC toolkits, expansion boxes, RAM packs or even add-on microdrives all of which are due to be launched. The list of third party languages does not include GST's 68K-OS. The ''technical section'' is not really technical at all, in the main it is a statement of the obvious.

The comment that files to a printer should be opened with "ser1c" if your printer uses CHR\$(13) for end of line



implies that some printers are nonstandard when it is really the QL at fault. There is a section with some errata for the Archive manual. I realise that it is difficult to print a first issue of anything but with the close contact that QLUB has with Sinclair I would have at least hoped for an interview with a member of the QL development team. The Independent QL user group has produced six newsletters, with some quite useful info, the print quality is not a patch on the official version but they are free to "Sinclair-bash" and don't have to pretend that bugs are either unimportant, features, or don't exist. This means that they can suggest ways around the bugs.

Odd gossip that I have heard about the QL shows how much it was changed during the machine's development. It is common knowledge that the QL was supposed to have a battery backed up clock and that this was removed at the last minute. It was taken out so late that Sinclair had already bought all the batteries! Maybe they can sell them to ICL for the QL derived One-Per-Desk (OPD) computer-cum telephone.

There are very few monitors which

can cope with the full size screen on the QL. This is because the QL was originally supposed to be sold with a monitor so the non-standard screen size did not matter. Judging from the number of people I have heard complaining about having to buy a monitor with an Amstrad I reckon that Sinclair was right to sell the QL on its own.

There will be a Sinclair badged monitor in the "near" future and an eight colour dot-matrix printer. There will also be a full set of accounting programs from Sinclair but they may be pipped to the post by a firm called Quest who are selling CP/M 68K with proper disk drives for the QL. This will open up the range of software for the QL tremendously.

There is a fair bit of CP/M 68K software around, not as much as for the other CP/M systems and it's pricey but that's better than nothing.

Virgin's Electric Dreams

It is unusual for Games Computing to get invitations to anything other than computer and games launches so when a spare ticket for the new Virgin film "Electric Dreams" was offered to me I jumped at the chance. If you get annoyed at people pretending that computers are magic then this is not a film for you. The abilities of the computer in the film are pure fantasy, so far beyond fifth generation they would make the Japanese wince. Suspend reality and accept what is presented as you would in a Herbie film and it is great fun. Computer graphics fans will enjoy the scenes of the hero getting chased by a twelve foot high Pac-man.

The hardened critics at the preview thought it was slushy. I enjoyed it and will go again when it is released. The music by Culture Club sounded very unlike their previous stuff and will no doubt be played to death on the radio. Being a Virgin film the computer shop where the hero buys his toy is stocked to the gills with Virgin software.

The film is set in California so I wonder how the 'Owzat' cricket game does down there! One mistake I noticed was a UK spec BBC for sale, so that scene was not shot on location. Virgin films have certainly got off to a good start.

GAMES COMPUTING

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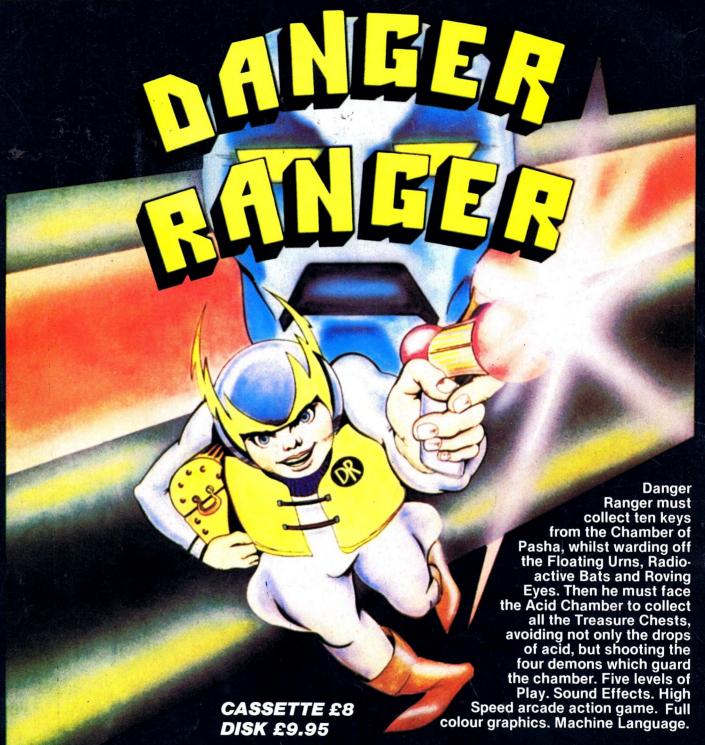
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