



Playing The Game

This program requires a slightly complex starting procedure because it runs separately on two Spectrums. A copy of the program must be loaded into each computer.

Both may be loaded from cassettes but it is much quicker to load one Spectrum from cassette (or Microdrive) and then transmit the program across the network to the other machine.

To do this, type LOAD *"n";0 at the receiving end and SAVE *"n";0 on the machine that has the program in memory. Next, the players should decide who is to shoot first. This player should RUN the program slightly before the second player. The program then assigns network numbers to both machines and works out which copy of the program is playing first and which second.

When the program begins, both players must set up the positions of their ships. This is done by specifying the location of one end of each craft on the 10 x 10 playing grid and saying whether the rest of the ship is up, down, left or right of that position. This sounds complicated but is convenient in practice. Each player has two MTBs (length 1 square), two Cruisers, (length 2 squares), two Battleships (length 3), a Destroyer (4) and an Aircraft Carrier (5).

The players then take turns to shoot at a square on each other's grid, and the program evaluates the result of each shot. A win is achieved by destroying all of one player's ships. Both players should type RUN to play again, remembering that whoever wants to start should RUN first

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10 REM Networked Battleships Game
11 REM
12 REM 2 Spectrums, interface 1s
13 REM June 84/Version 1.6
15 REM *** init everything
30 GO SUB 2000: REM fight for net
40 LET s#=""
REM 34 spaces
50 DIM s(8): REM ship types
60 DIM n$(8,12): REM ship names
70 DIM a(10,10): REM squared paper!
80 FOR i=1 TO 8: READ s(i),n$(i): NEXT i
90 DATA 1,"MTB",1,"MTB",2,"Cruiser",2,"Cruiser"
100 DATA 3,"Battleship",3,"Battleship",4,"Destro
yer",5,"Carrier"
110 LET sc=8
120 GO SUB 5000: REM init screen
130 GO SUB 4000: REM set up ships
140 REM now jump depending which
150 REM player we are. #1 shoots first
160 IF sta=2 THEN GO TO 400
200 REM *** Take a shot!
210 LET m#="Your shot": GO SUB 6000
220 GO SUB 7000: IF e=1 THEN GO TO 210
230 OPEN #4:"n":him
240 PRINT #4:a#
250 CLOSE #4
260 REM wait & get results back
270 OPEN #4:"n":him
280 INPUT #4:a#
290 CLOSE #4
300 LET r=VAL (a$(1 TO 1)): LET x=VAL (a$(2 TO 1))
310 IF r=1 THEN LET m#="Miss!": PRINT AT 6+q,18
+p;"0": GO SUB 6000
320 IF r>1 THEN LET m#="Hit!": PRINT AT 6+q,18+
p;"X": GO SUB 6000
330 IF r>2 THEN LET m#="You've sunk an enemy "+
n$(x): GO SUB 6000
340 IF r=4 THEN LET m#="Congratulations .... Yo
u win!": GO SUB 6000: STOP
400 REM *** Enemy fire
410 LET m#="Enemy firing": GO SUB 6000
420 OPEN #4:"n":him
430 INPUT #4:a#
440 CLOSE #4
450 LET p=VAL (a$(2 TO 1))+1: LET q=CODE (a$(1-64
460 LET m#="Enemy firing at "+a$: GO SUB 6000
470 LET x=a(p,q): LET a(p,q)=0
480 IF x=0 THEN LET r=1: GO TO 530
490 LET r=2
500 LET s(x)=s(x)-1
510 IF s(x)=0 THEN LET r=3: LET sc=sc-1
520 IF sc=0 THEN LET r=4
530 LET a#="STR$(r)+STR$(x)
540 OPEN #4:"n":him
550 PRINT #4:a#
560 CLOSE #4
570 IF r=1 THEN LET m#="It's a miss": PRINT AT
6+q,4+p;"0":
580 IF r=1 THEN LET m#="a(x)+ " damaged": PRINT
AT 6+q,4+p;"Y":
585 IF r=2 THEN LET m#="a(x) and sunk"
587 GO SUB 6000
590 IF r=4 THEN LET m#="Sorry .... you lose!": G
O SUB 6000: STOP
600 GO TO 210
2000 REM *** decide who's who
2005 CLOSE #4
2010 OPEN #4:"n":0
2020 PRINT #4:"1"
2030 CLOSE #4
2040 OPEN #4:"n":0
2045 INPUT #4:a#
2050 CLOSE #4
2060 IF a#="1" THEN OPEN #4:"n":0: PAUSE 5:
PRINT #4:"2": LET sta=1
2070 IF a#="2" THEN LET sta=2
2080 CLOSE #4
2090 FORMAT "n":sta: LET him=3-sta: RETURN
3000 REM *** set up screen
3010 LET col=0: IF sta=2 THEN LET col=7
3020 PRINT : BORDER 7-col: PAPER 7-col: INK col
:CLS
3030 PRINT TAB 8:"NET BATTLESHIPS"
3040 PRINT : PRINT "PLAYER #":sta
3050 PRINT : PRINT " YOUR SHIPS TARGET SHIP
5"
3060 PRINT : PRINT " 0123456789 0123456789
"
3070 FOR i=1 TO 10
3080 PRINT " ";CHR$(i+64):"..... ";CHR
$(i+64):"....."
3090 NEXT i
3100 RETURN
4000 REM *** Set up ships
4010 LET m#="Please position your ships": GO SUB
6000
4020 FOR s=1 TO sc
4030 LET m#="STR$(s)+ " length "+STR$(s)
): GO SUB 6000
4050 GO SUB 7000: IF e=1 THEN GO TO 4030
4055 IF s(s)=1 THEN LET x=d=0: LET y=d=0: GO TO 41
30
4070 INPUT "U, D, L or R ? ":a#: LET x=d=3: LET yd
=3
4080 IF a#="U" OR a#="u" THEN LET x=d=0: LET yd=
-1
4090 IF a#="D" OR a#="d" THEN LET x=d=0: LET yd=
1
4100 IF a#="L" OR a#="l" THEN LET x=d=-1: LET yd
=0
4110 IF a#="R" OR a#="r" THEN LET x=d=1: LET yd=
0
4120 IF x=d=3 AND yd=3 THEN GO TO 4070
4130 LET l=s(s): LET x=p: LET y=q
4140 IF x<1 OR x>10 OR y<1 OR y>10 THEN LET m#="
Move the ship away from the edge": GO SUB 6000: GO
TO 4030
4150 IF a(x,y)>0 THEN LET m#="Please reposition
the ship": GO SUB 6000: GO TO 4030
4160 LET x=x+x*d: LET y=y+y*d
4170 LET l=l-1: IF l>0 THEN GO TO 4140
4180 LET l=s(s): LET x=p: LET y=q
4190 LET a(x,y)=s: INK s(s): PRINT AT 6+y,4+l:" "
: INK col
4200 LET x=x+y*d: LET y=y+y*d
4210 LET l=l-1: IF l>0 THEN GO TO 4190
4220 NEXT s
4230 LET m#="Prepare for action!!!": GO SUB 6000
4240 RETURN
6000 REM *** Print m#
6010 PRINT AT 20,0:s#:AT 20,0:m#: PAUSE 100: RETU
RN
7000 REM *** Validate co-ords
7010 LET e=0
7015 INPUT "Co-Ords ? ":a#
7020 IF LEN a#>2 THEN LET e=1: GO TO 7100
7030 FOR i=1 TO 2
7040 LET c=CODE (a$(i TO 1)): IF c=97 AND c=122
THEN LET a$(i TO 1)=CHR$(c-32)
7050 NEXT i
7060 LET q=CODE (a$(1 TO 1)): LET p=CODE (a$(2 TO
2))
7070 IF q<65 OR q>74 THEN LET x=q: LET q=p: LET
p=x
7080 IF q<65 OR q>74 THEN LET e=1
7090 IF p<48 OR p>57 THEN LET e=1
7100 IF e=1 THEN LET m#="Please re-enter co-ordi
nates": GO SUB 6000: RETURN
7110 LET q=q-64: LET p=p-47
7120 RETURN

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