

Battleships

This is the traditional game of Battleships to be played against the computer. For anyone who hasn't come across the game before, there are full instruction included in the listing. The winner is the first to destroy all the six enemy ships, and there are levels of difficulty (1 or 2) which must be entered before battle can commence.

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10 REM BATTLESHIPS
20 REM @ PAUL STANLEY.
30 MODE 1: BORDER 0: INK 0,0: INK 1,26: INK
2,24: INK 3,6
40 WINDOW #1,1,40,1,25: PAPER #1,0: CLS #1
50 WINDOW #0,5,36,1,25: PAPER #0,0: PEN #0
,1: CLS #0
60 DIM Y(6): DIM X(6): DIM H(6),F(6): DIM G
(6): DIM C$(12,12)
70 GOSUB 1020
80 GOSUB 560
90 GOSUB 670
100 Q=16: F=18: QX=Q: PX=P
110 PRINT CHR$(22)+CHR$(1): LOCATE P+1,Q
+1: PRINT "+": PRINT CHR$(22)+CHR$(0)
120 LOCATE 1,19: PEN 3: PRINT "          Y
OUR MOVE          ": PEN 1
130 LOCATE 1,21: PEN 2: PRINT "Use the curs
or keys to move yourcross about.Fire by
pressing theCOPY key.": PEN 1
140 PRINT CHR$(22)+CHR$(1): LOCATE P+1,Q
+1: PRINT "+": PRINT CHR$(22)+CHR$(0)
150 X$=INKEY$
160 IF INKEY(2)=0 THEN Q=Q+1: IF Q=17 THE
N Q=5
170 IF INKEY(0)=0 THEN Q=Q-1: IF Q=4 THEN
Q=16
180 IF INKEY(1)=0 THEN P=P+1: IF P=30 THE
N P=18
190 IF INKEY(8)=0 THEN P=P-1: IF P=17 THE
N P=29
200 IF INKEY(9)=0 THEN 250
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210 LOCATE PX+1,QX+1:PRINT CHR$(241);:L
OCATE P+1,Q+1:PRINT CHR$(22);CHR$(1);"+"
;CHR$(22);CHR$(0):PX=P:QX=Q
220 FOR XX=1 TO 6: IF H(XX)=1 THEN LOCAT
E G(XX)+1,F(XX)+1:PRINT CHR$(248);CHR$(2
49);
230 NEXT XX
240 GOTO 140
250 SOUND 1,120,5: PRINT CHR$(22)+CHR$(1
):LOCATE P+1,Q+1:PRINT"+":PRINT CHR$(22)
+CHR$(0)
260 FOR F=1 TO 6
270 IF H(F)=0 AND Q=F(F) THEN IF P=G(F)
OR P=G(F)+1 THEN 300
280 NEXT F
290 GOTO 340
300 H(F)=1:LOCATE G(F)+1,F(F)+1:PEN 3:PR
INT CHR$(248);CHR$(249):PEN 1
310 FOR X=1 TO 3: ENT 1,10,-4,9:SOUND 1,
200,75,13,0,1:NEXT
320 REM
330 SC1=SC1+1:IF SC1=6 THEN 490
340 LOCATE 1,19:PEN 2:PRINT"           M
Y MOVE           ":LOCATE 1,21:PRINT
CHR$(20):LOCATE 1,21
350 FOR XX= 1 TO 1000:NEXT
360 G=(INT(RND*12/SC))*SC+1:F=INT (RND*1
2)+1
370 IF C$(F,G)="X" THEN GOTO 360
380 C$(F,G)="X":LOCATE G+4,F+5:PRINT CHR
$(22);CHR$(1);"*";CHR$(22);CHR$(0);
390 Y=F+4:X=G+3
400 FOR I=1 TO 6
410 IF Y=Y(I) THEN IF X=X(I) OR X=X(I)+
1 THEN 440
420 NEXT
430 GOTO 110
440 PEN 3:FOR O=7 TO 0 STEP -1: LOCATE
X(I)+1,Y(I)+1:PRINT CHR$(248);CHR$(249):
NEXT:PEN 1
450 FOR X=2 TO 5 : ENT 1,10,-3,9:SOUND 2
,200,75,13,0,1:NEXT
460 C$(Y(I)-4,X(I)-3)="X":C$(Y(I)-4,X(I)
-2)="X"

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470 SC2=SC2+1:IF SC2=6 THEN 510
480 GOTO 110
490 LOCATE 1,19:PRINT CHR$(20);:LOCATE 1
,19:PEN 2:PRINT"WELL DONE ! YOU DESTROYE
D ALL THE COMPUTER'S FLEET !!":PEN 1
500 GOTO 520
510 LOCATE 1,19:PRINT CHR$(20);:LOCATE 1
,19:PEN 3:PRINT"BAD LUCK ! THE COMPUTER
SUNK ALL YOUR SHIPS !!":PEN 1
520 PRINT:PRINT"PRESS ANY KEY TO PLAY AG
AIN..."
530 IF INKEY$<>"" THEN 530
540 IF INKEY$="" THEN 540 ELSE RUN
550 STOP
560 REM * INITIALISE
570 A$="BATTLESHIPS "
580 LOCATE 1,3:FOR F=1 TO 5:FOR G=1 TO 1
3:PRINT MID$(A$,G,1);:SOUND 2,(G*3+F*5),
4:NEXT G, F
590 PRINT CHR$(24)" @ P A U L S T A
N L E Y ":PRINT CHR$(24)
600 PRINT:PRINT
610 PEN 3:PRINT"Play the computer at bat
tleships":PEN 1
620 PEN 2:PRINT:PRINT"The winner is t
he first to destroy all six enemy s
hips.":PEN 1
630 PRINT:PRINT:PRINT CHR$(24)" Instruct
ions are given as you proceed.
":PRINT CHR$(24)
640 PEN 3:PRINT:PRINT"PRESS ANY KEY TO S
TART.... ":PEN 1
650 IF INKEY$=""THEN 650 ELSE CLS
660 RETURN
670 LOCATE 1,24:PEN 2: INPUT"ENTER SKILL
LEVEL [1-EASY OR 2-HARD]
";SC:PEN 1:LOCATE 1,24:PRINT SPACE$(64
)
680 IF SC<>2 AND SC<>1 THEN 670

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690 FOR F=5 TO 16:LOCATE 5,F+1:PRINT CHR
$(241);CHR$(241); CHR$(241);CHR$(241);CH
R$(241);CHR$(241);CHR$(241);CHR$(241);CH
R$(241);CHR$(241);CHR$(241);CHR$(241);CH
R$(250);" ";CHR$(241);CHR$(241);CHR$(241
);CHR$(241);CHR$(241);CHR$(241);CHR$(241
);CHR$(241);
700 PRINT CHR$(241); CHR$(241);CHR$(241)
;CHR$(241);CHR$(250):NEXT
710 LOCATE 1,1:PEN 3:PRINT"B A T T L
E S H I P S":PEN 1
720 LOCATE 5,5:FOR F= 1 TO 12:PRINT CHR$(
95);:NEXT
730 LOCATE 19,5:FOR F= 1 TO 12:PRINT CHR
$(95);:NEXT
740 FOR F=1 TO 12:LOCATE 3,F+5:PRINT CHR
$(64+F):NEXT
750 X$="123456789": LOCATE 5,4:PRINT MID
$((X$), 1,9)
760 LOCATE 14,4:PRINT CHR$(245);CHR$(246
);CHR$(247)
770 LOCATE 1,2:PEN 2:PRINT" YOUR SHIP
S MY SHIPS ":PEN 1
780 LOCATE 1,19:PEN 2:PRINT"You can plac
e 6 ships by typing [D4]for example.Then
press ENTER":PEN 1
790 FOR F=1 TO 6
800 LOCATE 1,21:PRINT SPACE$(25);:LOCATE
1,21:INPUT A$:IF A$="" THEN 800 ELSE A$
=UPPER$(A$)
810 IF LEFT$(A$,1)<"A" OR LEFT$(A$,1)>"L
" THEN GOTO 800
820 Y=ASC(LEFT$(A$,1))-60
830 X=VAL(RIGHT$(A$,LEN(A$)-1))+3
840 IF X<4 OR X>14 THEN 800
850 FOR I=1 TO 6:IF Y=Y(I) THEN IF X=X(I
)-1 OR X=X(I) OR X=X(I)+1 THEN 800
860 NEXT I
870 PRINT CHR$(22)+CHR$(1): LOCATE X+1,Y
+1:PRINT CHR$(243)+CHR$(244):PRINT CHR$(
22)+CHR$(0)
880 LOCATE 1,22:PRINT" ":LOCATE
1,22
890 Y(F)=Y:X(F)=X

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900 NEXT F
910 LOCATE 1,19:PRINT CHR$(20)
920 REM
930 FOR F=1 TO 6
940 Y=INT (RND*12)+5:X=INT (RND*11)+18
950 FOR G=1 TO 6
960 IF Y=F(G) THEN IF X=G(G) OR X=G(G)+1
  OR X=G(G)-1 THEN 940
970 NEXT G
980 F(F)=Y:G(F)=X
990 NEXT F
1000 SC1=0:SC2=0
1010 RETURN
1020 SYMBOL AFTER 239
1030 SYMBOL 240,0,0,0,222,255,222,0,0
1040 SYMBOL 241,128,128,128,128,128,128,
128,255
1050 SYMBOL 242,129,129,129,129,129,129,
129,255
1060 SYMBOL 243,0,2,34,59,63,255,127,0
1070 SYMBOL 244,0,0,32,48,120,126,124,0
1080 SYMBOL 245,0,38,41,41,41,41,38,0
1090 SYMBOL 246,0,20,20,20,20,20,20,0
1100 SYMBOL 247,0,76,82,68,72,80,94,0
1110 SYMBOL 248,128,128,208,164,254,231,
255,255
1120 SYMBOL 249,128,128,136,151,200,174,
252,255
1130 SYMBOL 250,128,128,128,128,128,128,
128,128
1140 RETURN
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