

b=MULTIPLY
c=DIVIDE
_ =LEFT ARROW
a=RIGHT ARROW
^=DOWN ARROW

OTHELLO

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1 CLEAR ;GOTO 20
2 B=L;O=0;E=Bc10;D=B-Eb10;Y=-36+Db8;X=-36+Eb8;IF A=2GOTO 350
3 IF A=3GOTO 360
4 BOX X,Y,5,5,1;BOX X,Y,3,3,3;BOX X,Y,1,1,3;A=2;RETURN
5 NT=1;P=0
6 L=L+N;A=@(L);MU=L;IF A=R P=1;GOTO 6
7 NT=0;IF A=MIF T=2RETURN
8 IF A=0RETURN
9 IF A=3IF P=1IF T=2GOTO 530
10 IF A=3RETURN
11 L=L-N;A=@(L);IF A=R U=1;@(L)=M;A=M;GOSUB 2
12 IF A=MRETURN
13 GOTO 11
20 @(9)=72;BC=RND (32)b8;FC=BC+4+RND (32)b8;@(0)=BC;@(1)=BC;A=FC+RND (32)b8;@(2)=A;@(3)=A+1
30 FOR Z=1TO 8STEP 2;BOX 0,0,Z,Z,3;NEXT Z;CY=38;INPUT "PLAYERS?"Q
50 CLEAR ;FOR Z=0TO 100;@(Z)=0;NEXT Z;T=1;FOR Z=1TO 8;FOR W=1TO 8;@(Zb10+W)=3;NEXT W;NEXT Z
60 M=1;@(44)=1;@(55)=1;@(54)=2;@(45)=2
70 R=65;FOR Z=-28TO 28STEP 8;FOR Y=-38TO 38STEP 76;CX=Z;CY=Y;TV=R;CX=Y;CY=Z;PRINT #1,73-R;NEXT Y;R=R+1;NEXT Z
80 FOR X=-32TO 32STEP 8;BOX X,0,1,64,1;BOX 0,X,64,1,1;NEXT X;FOR L=44TO 55;A=@(L);IF A<3IF A>0GOSUB 2
90 NEXT L;S=4
100 IF S=64GOTO 20
110 IF M=1IF Q=0M=2;R=1;GOTO 490
120 IF M=2IF Q<2M=1;R=2;GOTO 490
130 Z=0;IF TR(M)GOTO 130
140 CY=9;PRINT #1,M,"? ",
150 Z=Z+JX(M);IF Z<1Z=0;Y=0;PRINT "00";GOTO 180
160 Y=Y+JY(M);IF Y>8Y=8
161 IF Z>8Z=8
162 IF Y<2Y=1
170 TV=Z+64;PRINT #1,9-Y
180 IF TR(M)Z=Zb10+Y;GOTO 200
190 GOTO 140
200 U=0;IF Z=0GOTO 320
210 A=@(Z);IF A<3IF A>0GOTO 130
220 IF M=1M=2;R=1;GOTO 240
230 M=1;R=2
240 @(Z)=M;A=M;S=S+1;L=Z;GOSUB 2
250 FOR W=-1TO 1;FOR U=-1TO 1;N=Wb10+U;L=Z;GOSUB 5;NEXT U;NEXT W
260 IF Q<2IF T=2GOTO 510
270 IF U=0@(Z)=3;A=3;L=Z;S=S-1;GOTO 2
280 GOTO 460
320 O=O+1;IF O>1GOTO 20
325 IF Q=0GOTO 100
330 IF M=2M=1;GOTO 100

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340 M=2;GOTO 100
350 BOX X,Y,5,5,1;A=1;RETURN
360 BOX X,Y,5,5,2;GOTO 330
460 Z=0;FOR T=11TO 88;IF @(T)=ZZ=Z+1
470 NEXT T;CY=-15;PRINT "#1=",#2,Z;PRINT "#2=",#2,S-Z
480 GOTO 100
490 CY=1;PRINT "HMM..";F=0;T=2;H=-3;FOR Z=11TO 88;IF @(Z)=MGOTO 250
510 NEXT Z;IF H=-3T=1;CY=1;PRINT #1,R," 00";NT=3;FOR Z=1TO 15;MU=61;NEXT Z;NT=
0;IF Q=1M=2
515 IF H=-3GOTO 320
520 GOTO 620
530 G=0;K=Lc10;J=L-Kb10;IF (J=1)+(J=8)G=G+1
540 IF (K=1)+(K=8)G=G+1
550 IF (J=2)+(J=7)G=G-1
560 IF (K=2)+(K=7)G=G-1
570 IF G<HRETURN
580 IF G>H H=G;F=L;GOTO 600
590 IF RND (2)=1F=L
600 RETURN
620 @(F)=M;S=S+1;A=M;I=Fc10;K=F-Ib10;CY=1;PRINT #1,R," ",;TV=I+64;PRINT #1,9-K
:L=F
630 GOSUB 2;Z=L;T=1;GOTO 250

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VAN GAM

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10 S=0;U=0
20 CLEAR ;BC=RND (32)b8;FC=BC+4
30 FOR Z=0TO 49;@(Zb2)=Zb262c100;@(Zb2+1)=Zb162c100;NEXT Z
40 T=0;INPUT "PILE SIZES? L",L,R
41 IF L+R=0GOTO 40
45 PRINT #11,L,"-LEFT",#4,R,"-RIGHT
60 IF L+R>5GOTO 80
70 PRINT "YOU'RE A REAL SPORT!
80 PRINT "DO YOU WANT TO GO FIRST?
90 K=KP;IF K=78GOTO 690
100 IF L=RGOSUB 1200
110 IF ABS(L-R)=1GOSUB 1200
120 PRINT "YOUR MOVE: ",
130 I=KP;TV=I;J=KP;TV=J;IF J<65K=KP;TV=K
140 IF I>48IF I<58GOTO 170
150 PRINT ;T=T+1;IF T>2PRINT "ALRIGHT, THAT'S IT!";PRINT "I QUIT!";STOP
160 PRINT "IMPROPER ENTRY!";GOTO 120
170 I=I-48;IF J<65I=Ib10+(J-48);J=K
175 IF J=76GOTO 180
176 IF J=82GOTO 182
177 IF J=66GOTO 184
178 GOTO 150
180 IF I>LGOTO 150
181 L=L-I;GOTO 220
182 IF I>RGOTO 150
183 R=R-I;GOTO 220
184 IF I>LGOTO 150
185 IF I>RGOTO 150
186 L=L-I;GOTO 182
210 GOTO 150
220 GOSUB 1150
600 IF L+R>0GOTO 680
630 PRINT "YOU WIN!!";S=S+1;GOTO 1160

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680 PRINT "HM..",
690 Z=0;M=0
700 IF @(Z)=LGOTO 760
710 IF @(Z+1)=LGOTO 780
720 IF @(Z)=RGOTO 800
730 IF @(Z+1)=RGOTO 820
740 Z=Z+2;IF Z>99PRINT "I DON' T KNOW!";GOTO 1080
750 GOTO 700
760 A=Z;B=1;IF M=1GOTO 840
770 M=1;GOTO 720
780 A=Z;B=0;IF M=1GOTO 840
790 M=1;GOTO 720
800 C=Z;D=1;IF M=1GOTO 840
810 M=1;GOTO 740
820 C=Z;D=0;IF M=1GOTO 840
830 M=1;GOTO 740
840 IF L=RGOTO 895
845 IF C=AGOTO 1080
850 IF A>CGOTO 900
860 P=A+B
880 IF @(P)>RGOTO 940
890 M=R-@(P);R=@(P);E=82;GOTO 1110
895 M=L;L=0;R=0;E=66;GOTO 1110
900 P=C+D
920 IF @(P)>LGOTO 940
930 M=L-@(P);L=@(P);E=76;GOTO 1110
940 M=0;E=66
950 P=A;IF C<A P=C
960 P=P-2;G=0
965 M=M+1;L=L-1;R=R-1
970 FOR Z=PTO 0STEP -2
990 IF @(Z)=LGOTO 1040
1000 IF @(Z+1)=LGOTO 1050
1010 IF @(Z)=RGOTO 1060
1020 IF @(Z+1)=RGOTO 1070
1030 NEXT Z;GOTO 965
1040 IF @(Z+1)=RGOTO 1110
1045 GOTO 1075
1050 IF @(Z)=RGOTO 1110
1055 GOTO 1075
1060 IF @(Z+1)=LGOTO 1110
1065 GOTO 1075
1070 IF @(Z)=LGOTO 1110
1075 IF G=1GOTO 960
1077 G=1;GOTO 965
1080 IF L>RGOTO 1100
1090 R=R-1;M=1;E=82;GOTO 1110
1100 L=L-1;M=1;E=76
1110 PRINT " I TAKE: ",#3,M,;TV=E
1115 GOSUB 1150
1120 IF L+R>0GOTO 120
1130 PRINT "I WIN!!";U=U+1;GOTO 1160
1150 PRINT ;PRINT "LEAVING",#4,L,"-LEFT",R,"-RIGHT";RETURN
1160 PRINT "COMPUTER = ",#1,U," HUMAN = ",S
1170 PRINT "DO YOU WANT TO PLAY AGAIN?"
1180 K=KP;IF K=89GOTO 20
1190 T=2;GOTO 150
1200 PRINT "YOU LIKE SITTING DUCKS, DON' T YOU?";RETURN

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FLIGHT SIMULATOR

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10 CLEAR
15 X=40;Y=40;C=0
20 BC=32;FC=5
30 NT=0
40 H=0;S=0;F=2000;D=0
50 BOX 0,0,80,1,1
60 BOX 0,0,1,80,1
70 PRINT "  ALT  VEL  FUEL  HITS"
80 A=0;B=0
90 LINE 25,A,0;LINE -25,B,3;LINE 25,A,0
120 S=S+(A+B)*2
130 H=H-(S*100+1)*B*(A+B)*2
140 IF H>0IF S<50GOTO 2000
150 IF H<0GOTO 5000
160 IF H>1000IF C#9C=RND (8)
165 IF H>0IF H<160GOTO 6000
170 IF C=1GOTO 3000
180 IF C=9GOTO 3020
190 LINE -25,B,3
210 A=A+JY(1);B=B+JY(1)
220 A=A+JX(1);B=B-JX(1)
230 IF TR(1)F=F-10;GOTO 4000
240 CY=32
250 PRINT #6,H,S,F,D
255 IF F<1GOTO 270
260 IF KN(1)>99S=S+5;F=F-5
270 IF KN(1)<-99S=S-5
280 IF H>0F=F-1
290 IF S<0S=0
300 IF F<0F=0;S=S-15
310 GOTO 90
2000 LINE -25,B,3
2010 IF S<0S=0
2015 A=A+3;B=B+3
2020 GOTO 240
3000 X=RND (150)-75;Y=RND (70)-39;C=9
3010 BOX X,Y,7,1,3;BOX X,Y,3,3,3
3020 BOX X,Y,7,1,3;BOX X,Y,3,3,3
3030 X=X-(A-B)+RND (5)-3;Y=Y+(A+B)*2+RND (5)-3
3040 BOX X,Y,7,1,3;BOX X,Y,3,3,3
3050 GOTO 190
4000 IF X>-2IF X<2GOTO 4020
4010 GOTO 240
4020 IF Y>-2IF Y<2GOTO 4040
4030 GOTO 240
4040 FOR Z=1TO 8;BOX X,Y,7,7,3;FC=7;FC=5;NEXT Z
4045 BOX X,Y,7,1,3;BOX X,Y,3,3,3
4050 C=0;D=D+1
4060 X=40;Y=40
4070 GOTO 240
5000 FOR Z=1TO 31;BC=6;BC=0;NEXT Z
5010 IF &(22)=16GOTO 10
5020 GOTO 5010
6000 T=80-H*2
6005 IF T<3T=3

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6010 BOX 0,0,T,T,3
6030 BOX 0,0,T,T,3
6050 GOTO 170
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SUB SEARCH

```
10 CLEAR ;NT=0
15 BC=25;FC=36
20 P=-1;T=21;V=0
30 GOSUB 4000
40 S=5
45 GOTO 50
50 X=RND (160)-80
60 Y=RND (20)+20
70 P=P+2
80 @(P)=X
90 @(P+1)=Y
100 T=T-1
110 IF T>1PRINT "YOU HAVE",#3,T," TORPEDOES LEFT"
112 IF T=1PRINT "ONLY 1 TORPEDO LEFT!!!"
115 IF T<0PRINT "RED ALERT!";GOTO 1000
120 IF T=0PRINT "ALL TORPEDOES GONE!";GOTO 1000
125 IF T<20IF T>0PRINT "LAST 'X' COORDINATE =",#3,E
126 IF T<20IF T>0PRINT "LAST 'Y' COORDINATE =",#3,D
130 O=CX
131 PRINT "'X' COORDINATE?",
132 CY=0;CX=48
133 G=KN(1)c3
134 PRINT #1,G
135 IF TR(1)GOTO 139
136 GOTO 132
139 IF TR(1)GOTO 139
140 CY=0;PRINT "'Y' COORDINATE?",
142 CY=0;CX=48
143 D=KN(1)c3
144 PRINT #1,D
145 IF TR(1)GOTO 180
146 GOTO 142
180 E=G;B=X-G;C=Y-D;B=BbB+CbC;H=A;A=0
185 A=A+1
190 J=B-AbA
200 IF J>0GOTO 185
210 A=(A-1)b100
211 CLEAR
215 IF T<20IF H<5000PRINT "LAST SHOT",#5,H," METERS AWAY"
217 IF T<20IF H>5000PRINT "LAST SHOT OUT OF RANGE!"
310 IF A>5000PRINT "SUB IS OUT OF RANGE";GOTO 1000
320 PRINT "THIS SHOT WAS",#5,A," AWAY!"
330 IF A>1000GOTO 1000
340 IF A>500GOTO 2000
350 IF A>100GOTO 3000
360 IF A<101PRINT "THE SUB HAS BEEN SUNK"
370 FOR Z=1TO 500
380 NEXT Z
390 GOTO 5000
1000 IF V>0V=0
1010 IF T>-1PRINT "SUB IS HEADING FOR YOU!"
1020 IF X>0X=X-S
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1030 IF X<0X=X+S
1040 IF X<-80X=-80
1050 IF X>80X=80
1060 Y=Y-S
1070 IF Y<-40GOTO 1110
1100 GOTO 70
1110 PRINT "YOU HAVE BEEN SUNK"
1120 GOTO 370
2000 PRINT "SUB HAS VEERED 45' "
2010 IF S>2PRINT "SUB HAS REDUCED SPEED!"
2020 S=S-1
2030 IF S<2S=2
2040 V=V+1
2050 IF V=5PRINT "SUB HAS MOVED TO A NEW LOCATION";GOTO 45
2060 IF X<H X=X-S
2070 IF X>H X=X+S
2080 GOTO 1040
3000 Y=Y+5
3010 PRINT "SUB HAS BEEN DAMAGED, AND HAS TURNED 180' "
3020 GOTO 2060
4000 BOX 0,0,160,1,1
4010 BOX 0,0,1,80,1
4020 CX=-50;CY=20
4030 PRINT "-X,Y"
4040 CX=30;CY=20
4050 PRINT "X,Y"
4060 CX=-50;CY=-20
4070 PRINT "-X,-Y"
4080 CX=30;CY=-20
4090 PRINT "X,-Y"
4096 PRINT "SUB STARTS SOMEWHERE ABOVE' Y' = 20"
4098 PRINT "' X' = -80 TO 80"
4100 FOR Z=1TO 3000
4110 NEXT Z
4120 CLEAR
4130 RETURN
5000 CLEAR
5010 LINE @(1),@(2),2
5020 FOR Z=3TO P+1STEP 2
5030 LINE @(Z),@(Z+1),1
5040 NEXT Z
5050 BOX @(Z-2),@(Z-1),3,3,3
5060 BOX 0,0,1,80,1
5070 BOX 0,-43,160,1,1
5080 IF TR(1)GOTO 10
5090 GOTO 5080

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HANGMAN

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25 BC=RND (256);FC=BC+4+RND (32)b8
30 CLEAR ;NT=0
40 FOR Z=0TO 99;CY=0
50 PRINT Z," ",
60 @(Z)=KP;TV=@(Z);IF @(Z)=31Z=Z-2
77 PRINT
80 NEXT Z
82 FOR Z=0TO 99;@(100+Z)=@(Z);NEXT Z
90 H=0;C=0;Z=0

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110 CLEAR
120 PRINT "COMPUTER =",#2,C," HUMAN =",#2,H
130 PRINT "TRY TO UNSCRAMBLE THIS WORD BEFORE I MAKE A"
140 PRINT "MONKEY OUT OF YOU!"
150 GOTO 1000
155 PRINT
160 T=1
162 O=0
165 BOX -40,-20,80,18,2
166 S=225
167 IF TR(1)S=S-1;GOTO 167
170 IF JY(1)D=KN(1)c18+72;GOTO 190
180 D=KN(1)c18+83
190 CY=-8;CX=-80
195 PRINT #1,S,c5
200 FOR Y=(100+Z)TO (99+T+Z)
205 S=S-1
210 IF @(Y)<65GOTO 215
212 TV=@(Y)
215 NEXT Y
220 TV=D
230 IF TR(1)K=D;GOTO 250
235 IF S<0GOTO 260
240 GOTO 170
250 IF K=@(100+Z+T)GOTO 300
260 PRINT
270 PRINT "SORRY!";GOSUB 2000
280 GOTO 165
300 T=T+1
310 IF T=N+1PRINT ;PRINT "VERY GOOD!";GOTO 330
320 GOTO 165
330 H=H+1
340 FOR L=1TO 3000;NEXT L
350 Z=Z+10
360 IF Z>99GOTO 5000
370 GOTO 110
1000 PRINT
1010 N=@(Z)-48;U=0
1020 M=RND(N)
1030 IF @(M+Z)=0GOTO 1020
1040 TV=@(M+Z);@(M+Z)=0
1050 U=U+1
1060 IF U=N+1GOTO 155
1070 GOTO 1020
2000 O=O+1;BOX 40,-20,2,30,1;BOX 55,-5,30,2,1
2010 IF O=1RETURN
2020 IF O=2BOX 59,-10,1,7,1;RETURN
2030 IF O=3BOX 54,-14,11,1,1;RETURN
2040 IF O=4BOX 54,-11,3,3,1;BOX 54,-13,1,1,1;RETURN
2050 IF O=5BOX 48,-17,1,7,1;BOX 49,-20,3,1,1;RETURN
2060 IF O=6BOX 54,-16,7,3,1;BOX 54,-18,3,2,1;RETURN
2070 IF O=7BOX 59,-19,7,1,1;BOX 62,-17,1,4,1;BOX 64,-16,5,1,1;BOX 66,-17,1,1,1;R
ETURN
2080 IF O=8BOX 53,-22,1,5,1;BOX 52,-24,2,1,1;RETURN
2090 BOX 55,-22,1,5,1;BOX 57,-24,2,1,1
2100 C=C+1
2110 PRINT "SORRY ABOUT THAT!"
2120 PRINT "THE WORD IS ' ',

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```
2130 FOR Y=(101+Z)TO (100+Z+N)
2140 TU=@(Y)
2150 NEXT Y
2160 PRINT " "
2170 GOTO 340
5000 PRINT "THAT'S THE LAST OF THE 10 WORDS!"
5010 IF H>7PRINT "YOU DID OK!"
5020 IF H<5PRINT "BETTER LUCK NEXT TIME!"
5030 PRINT "YOU GOT",#3,H," CORRECT!"
5040 PRINT "IF YOU WANT TO TRY AGAIN, PULL THE TRIGGER!"
5050 IF TR(1)GOTO 5070
5060 GOTO 5050
5070 FOR Y=0TO 99
5080 @(Y)=@(Y+100)
5090 NEXT Y
5100 GOTO 90
```