

BANGMAN game program included this month is by Ernie Sams, 248 S. Forest Street, Bellingham WA 98225. It has a novel twist over the old hangman game and is quite clever. It has a good scheme for entering characters without their appearing on the screen, and a search routine that can locate and account for multi-usage of a letter. I am also including Ernie's sheet of documentation that will be of help to a lot of us.

BANGMAN DOCUMENTATION:

10 - 200 Initialize and instructions.
300 - 700 Ask for and accept up to ten valid letters.
600 Stores the word in two locations:
 1. To keep track of the letters correctly guessed.
 2. To print the word if not guessed in nine tries.
800 - 1010 Set up blanks for the word.
1200 Store each letter of the alphabet for future use so the same letter is not used twice.
1300 Initiate guessing loop. Allows 26 guesses.
1430 - 1450 Allows one to guess a letter by turning knob #1.
1540 If storage position is set to -1 the letter has been used.
1550 Sets value of storage position to -1 and prints letter at the bottom of the screen.
1600 - 1900 Loop through the storage positions in 600 (1). If a match is found print the letter in the appropriate location(s) on the blanks established in 800-1010 and change the storage position value to -1. Set flag "Q" to 1.
2000 If the flag "Q" is not equal to 1 then the chosen letter did not match a letter in the word so go to subroutine 9600 plus counter E times 10 and print that portion of the man. Increment the E counter. If there have been nine wrong guesses default to 9000 to "bang" part of bangman.
2050 Otherwise flag "Q" equals 0.
2100 - 2200 Loop through storage positions in 600 (1). If all positions are -1 then the word has been guessed. Print "congratulations" and press go to start a new game.
9000 - 9020 The word was not guessed within the nine wrong guesses allowed. The man was completely built, so --
9030 - 9040 Print out the word (from 600 (2)) on the blanks.
9060 - 9160 Draw a gun with the word COLT on it.
9200 Change the screen to a border format.
9225 - 9340 Put six random shots in the body of the man. Use sound effects. 9230-9240 is the shot. 9260 is the ricochet.
9350 Blank out screen
9360 - 9370 Blank out man
9400 Uncover screen from top to bottom with man gone.
9410 Restore screen to full screen format.
9500 Press go to start a new game.

SUBROUTINES

9600 Prints head, eyes, mouth.
9610 Prints neck.
9620 Prints body.
9630 Prints right arm.
9640 Prints left arm.
9650 Prints right leg.
9660 Prints left leg.
9670 Prints right foot.
9680 Prints left foot.

Line #	Statement(s)	Line #	Statement(s)	Line #	Statement(s)
3	BANGMAN	14.30	G=((KN(1)+13.2)/1.0)+6.5	9.22.5	FOR U=0 TO 5
5	BY E.SAMS (C)=3-7.9	14.40	CY=2.3; CX=-7.4; TV=G	9.23.0	&(2.3)=2.55; &(2.1)=2.55
7	J.F.T.R(1)=0 GOTO 14.30	14.50	J.F.T.R(1)=0 GOTO 14.30	9.24.0	&(2.3)=0; &(2.1)=3.1
9	NT=2	15.40	J.F.(G-4.5)=-1 PRINT "HAS	9.26.0	FOR Y=5 TO 20; &(1.9)=Y; NEXT Y
10	CLEAR; PRINT "ONE PERSON	15.50	B.E.N.USED"; GOTO 14.00	9.27.0	&(2.1)=0; &(1.9)=0
KEYS IN A WORD TO 1.0 LET	@(G-4.5)= -1; CY=-4.0; CX=	16.00	F.O.R C=0 TO A-1	9.30.0	X=RND(1.0)+5.5
TERS; AND OTHER TRIES TO	-7.8+((G-6.5)*6); TV=G	17.00	CX=-2.5	9.31.0	Y=RND(.1.2)
GUESS IT WITH NO	J.V=G; Q=1	17.20	J.F. G=@(C); CX=-7.9+((C*8)+3);	9.32.0	BOX X,Y,1,1,2
PRINT "MORE THAN 9 WRONG	J.V=G; Q=1; @((C)=-1	17.80	J.F. G=@(C); CX=-7.9+((C*8)+3);	9.34.0	NEXT U
GUESSES, LOSING, K.N. & TR(1)	NEXT C	18.00	J.V=G; Q=1; @((C)=-1	9.35.0	FC=B6; &(1.0)=0
PRINT, PRINT "PRESS GO	19.00	J.F. Q#1 GOSUB 9.600+(E*1.0);	9.36.0	BOX .6F,.1F,.0F,.3B,.6F,2	
I=KP; IF I=13 CLEAR	E=E+1; IF E=9 GOTO 9.600	20.00	J.F. Q#1 GOSUB 9.600+(E*1.0);	9.37.0	BOX -.8,.4,.3D,.1B,.2
E=0; Q=0	Q=F0	20.50	E=E+1; IF E=9 GOTO 9.600	9.40.0	FOR Y=0 TO 17.6; &(1.0)=Y; NEXT Y
PRINT "ENTER WORD, THEN	Q=F0	21.00	F.O.R F=0 TO A-1	9.41.0	&(9)=50; FC=0
PRESS GO.	FOR F=0 TO A-1	21.10	J.F. @((F) #-1 GOTO 22.00	9.500	CX=-50; CY=16; PRINT "PRESS
3.00 FOR A=0 TO 9	21.20	NEXT F	9.600	GO"; GOTO 5F	
3.10 CY=3.1	21.30	C.Y=17; CX=-5.0	9.600	BOX .6F,.2I,.2B,.9.1;.BOX .5B,	
3.20 PRINT "LETTER #",A+1	21.40	PRINT "CONGRATULATIONS	9.62.0	.2B,.2I,.2B,.9.1;.2B,.9.1;.2I;	
3.30 BOX -5.5; 2.3,5F,3B,2	21.50	CY=0; CX=-0.0; PRINT "PRESS	9.63.0	BOX .6F,.24,.9.1;.2I; RETURN	
4.00 K=KP	21.60	GO"; GOTO 5F	9.64.0	BOX .6F,.18,.4,.5I;.RETURN	
4.10 J.F. K=13 GOTO 7.9F	22.00	NEXT D	9.650	BOX .7F,.14,.4,.3I;.BOX .7F,.6,	
4.20 J.F. K>9.0 PRINT "INVALID";	22.10	C.Y=-8.0; CY=-9	9.660	3;.2F,.1;.RETURN	
4.30 J.F. K<6.5 PRINT "INVALID";	22.20	PRINT "SORRY, ABOUT THIS	9.67.0	BOX .57,.7,.12,.3,.15,.1;.RETURN	
4.40 GOTO 3.10	22.30	P.RINT "THE WORD WAS	9.68.0	3;.2F,.1;.RETURN	
6.00 @((A)=K; @((A+1.0)=K	22.40	9.03.0 FOR H=0 TO A-1	9.69.0	BOX .64,.7,.12,.3,.15,.1;.RETURN	
7.00 NEXT A	22.55	CY=-7.9+((H*8)+3)	9.69.0	3;.2F,.1;.RETURN	
7.90 CLEAR	9.04.0 TV=@((H+.1.0); NEXT H	9.69.0	BOX .55,-.20,.8,.2,.1;.RETURN		
8.00 FOR B=0 TO A-1	9.05.0 BOX -1.6,.4,.1;.BOX -8,.7,	9.69.0	BOX .67,-.20,.8,.2,.1;.RETURN		
9.00 Y=-3.2; X=-B*8+(B*8)+3	9.06.0 BOX X,Y,7,3,1;NEXT B	9.69.0	NOTE: ELIMINATE AS MANY SPACES		
11.00 CY=-2.4; CX=6; PRINT "USED LET	27.51.9; BOX -1.9,1,2,1;BOX	9.69.0	AS POSSIBLE (EXCEPT THOSE		
TERS"; CY=-3.2; CX=4.2;	4.1,1.9,1,2,1;BOX -9,4,1,4,1	9.69.0	INSIDE QUOTES). IF YOU RUN		
PRINT "BELOW:"	4.2,6,3,1;BOX -8,4,6,1,4	9.69.0	SHORT CUT LINES. 3.2.0		
12.00 FOR M=0 TO 25; @((M+2.0)=	1.1.9,7,3,2;BOX -1.9,7,3,2	9.69.0	2.1.1;BOX -1.4,7,3,2		
M+6.5; NEXT M	3.2.2;BOX -9,6,2,9,1,2;BOX -7,8,	9.69.0	3.2.1.2;BOX -7,7,1,2,2,2		
13.00 FOR D=0 TO 25	3.2.1.2;BOX -1.8,7,3,2;BOX -1.7,7,9	9.69.0	3.2.0.0; &(9)=2.2; &(d)=8.7; &(1)=8.7,		
14.00 CY=3.1; CX=-8.0	2.1.1.1;BOX -1.4,7,3,2	9.69.0	&(2)=8.9; &(3)=8.0		
14.10 PRINT "GUESS #",D+1	3.2.1.1;BOX -1.4,7,3,2	9.69.0			
14.20 BOX -3.3,1.9,9.4,1.6,2	3.2.1.1;BOX -1.4,7,3,2	9.69.0			