

## PROGRAM NAME: AMAZED IN SPACE

PROGRAM OUTLINE:

Type: MAZE

Opponent: SKILL

Length: As Desired

Controls Used: Keyboard, Joystick

Graphics? Yes

Memory Left SZ: 48

Telephone #

Adapted From:

Revised by R. M. Houser

Line #

Statements)

200 CLEAR; FOR A=1 TO 100

210 X=0; Y=0

220 BOX RND(.169)-80, RND(.88) -

230 44, 1, 1, 1; NEXT A

240 C MAZE OUTLINE

250 BOX(0,0), 2\*x@C(1)+8, 2\*x@C(2)+8, 2

260 LINE -@C(1), @C(2), 4

270 LINE @C(1), @C(2), 1

280 LINE @C(1), -@C(2) +L, 1

290 LINE @C(1), -@C(2), 4

300 LINE -@C(1), @C(2) -L, 1

310 LINE -@C(1), @C(2), 4

320 LINE @C(1), -@C(2) +L, 1

330 LINE @C(1), -@C(2) -L, 1

340 LINE @C(1), -@C(2), 4

350 LINE -@C(1), @C(2), 4

360 LINE X, Y, 4

370 INPUT "DEGREE OF DIFFICULT

Y? 0-EASY 1-MEDIUM 2

HARD" R;CLEAR

PRINT "PATH SIZE CAN BE FR

OM "#3,5+R, "T0,20"

INPUT "PATH SIZE?" L;CLEAR

PRINT "HEIGHT CAN BE FROM

2 TO " 36 :L

140 INPUT "HEIGHT?" H;@C(2)=L\*XH;

CLEAR

450 IF PX(X,Y)&lt;1 LINE:X,Y,4 Rejects

460 LINE X,Y,1; Y=Y+B

470 IF Y&lt;-C(2) Y=@C(2)

480 IF Y&gt;C(2) Y=-C(2)

490 IF PX(X,Y)=1 LINE X,Y,4

500 LINE X,Y,4;P=P-1

530 CY=40; PRINT "COUNTDOWN=",

2, P

540 NEXT Q

550 CY=40; PRINT "

1000 GOT0 750

PROGRAM DESCRIPTION: Maneuver spaceship thru maze without crashing into walls. Direction is controlled by Joystick 1. Path size, maze height, maze width and degree of difficulty are selected by keyboard input. Score is based on these inputs and time taken to complete maze.

It takes quite awhile to complete maze interior, so start small.

Line # Statements)

200 C SPACESHIP  
C = 0; T = 0  
X = -C(1) - 2  
Y = @C(2) - (L ÷ 2); M = 0; N = 0  
P(C(2)) = 255; BC = 0  
D = J\*X(1); E = J\*Y(1)  
M = M + D; N = N + E  
700 IF M > G, M = G  
IF M < -G, M = -G  
IF N > G, N = G  
IF N < -G, N = -G  
X = X + M; Y = Y + N  
IF D # 0; P(C(2)) = 255  
IF E # 0; P(C(2)) = 255  
IF D = 0; IF E = 0; P(C(2)) = 0  
T = T + 1; C(Y=4, P, INT, #4, T)  
800 D = T + 1; C(Y=4, P, INT, #4, T)  
810 IF D # 0; P(C(2)) = 255  
820 IF E # 0; P(C(2)) = 255  
830 IF D = 0; IF E = 0; P(C(2)) = 0  
840 T = T + 1; C(Y=4, P, INT, #4, T)  
850 C MAZE INTERIOR  
P = C(W\*XH\*(100 ÷ L))  
FOR Q=1 TO P  
A=(RND(3)-2)\*L  
B=(RND(3)-2)\*L  
C(MAZES)  
440 IF X<-C(1) X=@C(1)  
450 IF X>@C(1) X=-C(1)  
460 IF PX(X,Y)<1 LINE:X,Y,4  
470 LINE X,Y,1; Y=Y+B  
480 IF Y<-C(2) Y=@C(2)  
490 IF Y>C(2) Y=-C(2)  
500 IF PX(X,Y)=1 LINE X,Y,4  
510 LINE X,Y,4;P=P-1  
520 CY=40; PRINT "COUNTDOWN=",  
2, P  
530 NEXT Q  
540 CY=40; PRINT "  
1000 GOT0 750

C STARS

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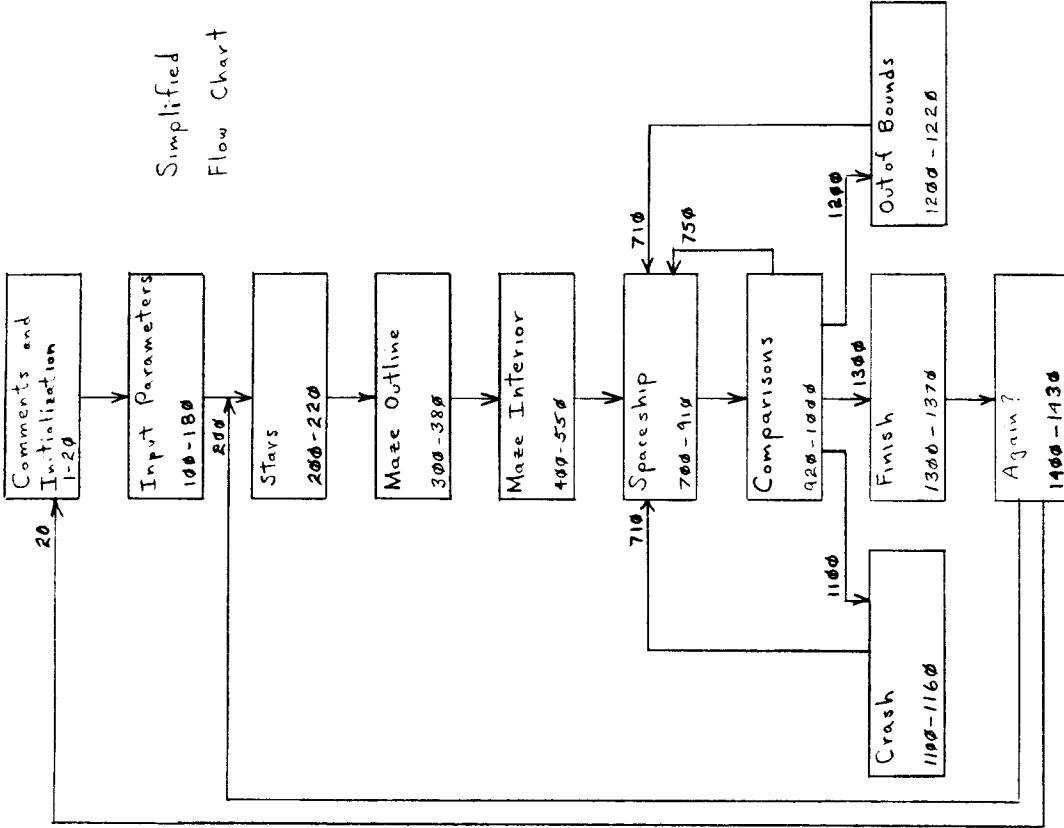
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Line #	Statements	Comments
1.100	CRAASH &(Z1)=0;C=C+1	J - Last Score
1.110	CX=-7.5;CY=4.4;PRINT C;" S.H!"	R - Degree of Difficulty
1.120	FOR A=1 TO 25:BC=80:N1=5:	L - Path Size
1.130	MU="4":NEXT A	H - Maze Height x 2
1.140	N1=0:GOTO 710	W - Maze Width x 2
1.150	OUT_OF_BOUNDS	X - Spaceship X Location
1.160	NT=5;CY=4.4;PRINT "OUTER,L,"	Y - Spaceship Y Location
1.170	MITS_COFFELIMITS":NT=Q	Z - # of loops to
1.180	NT=5;CY=4.4;PRINT "W,	complete maze
1.190	MITS_COFFELIMITS":NT=Q	interior, on large
1.200	OUT_OF_BOUNDS	mazes can take
1.210	NT=5;CY=4.4;PRINT "N,	15-20 minutes to
1.220	GOTO 710	complete.
1.230	FINISH	C - Crashes
1.240	NT=3:CLEAR	M - X velocity
1.250	PRINT "FAR OUT!, YOU DID IT!	N - Y velocity
1.260	!;ONLY "#3,C,"CRASH(C,S)!"	D - JX input
1.270	GOTO 710	E - JY input
1.280	PRINT "TIME=" #5,T	G - max movement
1.290	S=((RT+1)*H*W)*72:(TXL)÷10	per loop, if any
1.300	)×10	larger spaceship
1.310	PRINT "SCORE=" #5,S	will jump lines
1.320	IF S>J J=S	without crashing
1.330	PRINT "TODAY'S HIGH SCORE="	S - Score
1.340	#5,J	Z - Again Input
1.350	A,Q loops	A, Q
1.360	C TO PLAY AGAIN	
1.370	PRINT "AGAIN?"	
1.380	N1=0:INPUT "1-YES 2-SAME"	
1.390	AS LAST GAME"Z	
1.400	IF Z=1 GOTO 200	
1.410	IF Z=2 GOTO 200	
1.420	:RETURN	

R.M.H.