



Steve Smith

BUMPER POOL

APX-10053 APX-20052

User-Written Software for ATARI Home Computers

Steve Smith

BUMPER POOL

APX-10053 APX-20052

BUMPER POOL

by

Steve Smith

Program and Manual Contents © 1981 Steve Smith

Copyright and right to make backup copies. On receipt of this computer program and associated documentation (the software), the author grants you a nonexclusive license to execute the enclosed software and to make backup or archival copies of the computer program for your personal use only, and only on the condition that all copies are conspicuously marked with the same copyright notices that appear on the original. This software is copyrighted. You are prohibited from reproducing, translating, or distributing this software in any unauthorized manner.

TRADEMARKS OF ATARI

The following are trademarks of Atari, Inc.

ATARI 400" Home Computer
ATARI 400" Home Computer
ATARI 410" Program Recorder
ATARI 810" Disk Drive
ATARI 820" 40-Column Printer
ATARI 822" Thermal Printer
ATARI 825"80-Column Printer
ATARI 830" Acoustic Modem
ATARI 850" Interface Module

> The ATARI Program Exchange P. O. Box 427 155 Moffett Park Drive, B-1 Sunnyvale, CA 94086

To request an APX Software Catalog, write to the address above, or call toll-free:

800/538-1862 (outside California) 800/672-1850 (within California)

Or call our Sales number, 408/745-5535.

CONTENTS

INTRODUCTION 1
Overview 1
Required accessories 1
Contacting the author 1
GETTING STARTED 2
Loading BUMPER POOL into computer memory 2
First display screen 3
PLAYING BUMPER POOL 4
The pool table 4
Playing steps 5
Indication of player's turn 5
Directing the ball's line of movement 5
Specifying the ball's distance 5
Display of balls pocketed 6
Playing by the rules 6
Playing defense 6
End of game 6
Restarting the game 6
PROGRAM WARNINGS 7
Joystick control 7
Display screen clarity 7
ADVANCED TECHNICAL INFORMATION 8
Creating balls, bumpers, and direction arrows 8
Primary variables used in BUMPER POOL program
BUMPER POOL program description 10

INTRODUCTION

OVERVIEW

BUMPER POOL is a two-player game that resembles the popular pool hall game. You each start with five balls; yours are at one end of the table, and your opponent's are at the other end. The object is to pocket all five of your balls in the opening at the opposite end of the pool table from which you start before your opponent does so with his or her balls. Bumpers located in the center and at each end of the table block direct shots. Thus, you must use bank shots off other balls or cushion shots off the table edge to align a ball for a clean shot at the opening. On each turn, you choose which ball to move, the direction in which to move it, and how far to move it. You also must decide whether to play offensively by shooting for an opening or defensively by hitting your opponent's ball away from its intended opening.

REQUIRED ACCESSORIES

Cassette version
16K RAM
ATARI 410 Program Recorder
Diskette version
24K RAM
ATARI 810 Disk Drive
ATARI BASIC Language Cartridge
A set of ATARI Joystick Controllers

CONTACTING THE AUTHOR

Users wishing to contact the author about BUMPER POOL may write to him at

7516 Burke Street, NE Albuquerque, New Mexico 87109

GETTING STARTED

LOADING BUMPER POOL INTO COMPUTER MEMORY

- 1. Plug the joystick controllers into the two left-hand controller jacks (jacks 1 and 2) on the front of your computer console.
- Insert the ATARI BASIC Language Cartridge in the (Left Cartridge) slot of your computer.
- 3. If you have the cassette version of BUMPER POOL:
 - a. Turn on your TV set.
 - b. Turn on your computer and connect your program recorder to the computer and to a wall outlet.
 - c. Slide the BUMPER POOL cassette in the program recorder's cassette holder and press REWIND on the recorder until the tape rewinds completely. Then press PLAY.
 - d. Type CLOAD on your computer and then press the RETURN key two times. The tape will load into computer memory.
 - e. After the tape finishes loading, the word READY will display on your TV screen. Type RUN and press the RETURN key. The first display screen of BUMPER POOL, as described below, will appear on your TV screen.

If you have the diskette version of BUMPER POOL:

- a. Turn on your disk drive.
- b. When the BUSY light goes out, open the disk drive door and insert the BUMPER POOL diskette with the label in the lower right-hand side nearest to you.
- c. Turn on your computer and TV set.
- d. When the READY prompt displays on your TV screen, type RUN "D:POOL" and press the RETURN key. If you're using more than one disk drive, remember to follow the device initial (D) with the number of the drive containing the BUMPER POOL diskette (e.g., RUN "D2:POOL" for disk drive two). The program will load into computer memory and start.

FIRST DISPLAY SCREEN

The following information, together with a short sound and color show, displays on your TV screen while the program creates the pool table:

WELCOME TO THE

BUMPER POOL TOURNAMENT

2 PLAYERS USING JOYSTICKS 1 AND 2!

STICK #1 USES BALLS 1-5

STICK #2 USES BALLS 6-10

I PLEASE WAIT WHILE I CREATE THE BALLS

This message appears only once--when you start the game using the RUN command. Additional rounds start immediately after the end of the previous round.

PLAYING BUMPER POOL

THE POOL TABLE

The pool table is an outline of a rectangular table with an opening at each end. Eight round bumpers (represented by X's in the figure below) are in the middle and two are at each end of the table. Balls 1 through 5 (represented by their digits in the figure below) are on the left-hand side of the table and balls 6 through 10 are on the right-hand side of the table. Using the joystick in jack one, player 1 controls balls 1 through 5; using the joystick in jack two, player 2 controls balls 6 through 10.

The bottom of the screen shows ball selection, direction, distance, and balls already pocketed for left (player 1) and right (player 2) players. (Because the left side always goes first, you might want to alternate joysticks with your opponent for each round.)

The table, balls, and text all display in white on a dark green background for player 1's turn. The screen background changes to light green and the table, balls, and text change to black for player 2's turn.

The playing field looks approximately as follows.

1		1						6
1		2			×			7
il.	×				X			×
		3	X	×		X	×	8
-	Х				X			×
1		4			×			9
-		5						10
5		DALI					OTC	T PALL
D	IRE	BALI CTIO ANCE S DO	N: :				DIRE	IT BALL: ECTION: FANCE: LS DOWN

Figure 1 BUMPER POOL Table and Screen

PLAYING STEPS

Indication of player's turn

The first line of text below the pool table, LEFT BALL/RIGHT BALL, indicates both whose turn it is and which ball is currently in play. The initial display shows a 1 next to LEFT BALL, indicating ball 1 is in play (and that it's therefore player 1's turn). Change the ball number by holding your joystick controller so that the red button is at the upper left-hand side nearest your TV screen and pushing the joystick forward toward the TV screen. Give additional pushes on the joystick until the number displays of the ball you want to move and then press the red button.

As you pocket each ball, its number displays on the last line of text, BALLS DOWN, and that number no longer displays when you push your joystick to select a ball.

Directing the ball's line of movement

The second line of text, DIRECTION, indicates the line of movement you want the selected ball to take. An arrow displays on this line after you select the ball to play. Try to center the ball so that it will go into the opening with a straight shot. Again, push forward on your joystick until the arrow points in the appropriate direction and then press the red button.

The program prevents both players from shooting any of their balls into the opening at their own end of the table. Balls 1 through 5 must go into the right—end opening and balls 6 through 10 into the left—end opening.

Specifying the ball's distance

The third line of text, DISTANCE, indicates how far you want the selected ball to travel. The shortest distance, 1, displays in this line after you indicate the direction in which you want your selected ball to move. The range is from 1 to 9, a 1 representing about six ball lengths, and a 9 about fifty—four ball lengths. Choose short distances, less than 5, until you get a feel for how far balls travel with each of the nine selections. Push the joystick forward until the desired digit displays and then press the red button.

Your selected ball now moves in the direction you chose and travels the specified distance. If you set up a "cushion" shot, that is, a shot that bounces off the table edge, the ball will bank predictably. All other balls hit by the ball in motion also move predictably. However, a ball hitting a bumper bounces unpredictably. All ten balls can be moving simultaneously, if they're all struck!

After all movement stops, the number of the next available ball displays next to the text RIGHT BALL, and it's player 2's turn.

Display of balls pocketed

The final line of text, BALLS DOWN, shows which balls you and your opponent have already pocketed. Each time you pocket a ball, you'll be treated to a short color and sound show.

Playing by the rules

Our official rule book tells us that the first shot taken by each player must be the center ball (ball 3 for player 1 and ball 8 for player 2). While the program doesn't control for this rule, it does make the game more interesting.

PLAYING DEFENSE

In your drive to pocket all your balls first, don't forget the value of playing some strategic defense. For example, if your opponent has a straight shot lined up, consider using your next turn to hit his ball away or to block it with one of yours.

END OF GAME

Players continue to alternate turns until one player pockets all five balls. The game ends automatically. The screen clears and then shows which player is the winner—LEFT SIDE or RIGHT SIDE—along with some congratulatory music. Then the game automatically resets to a clean pool table, with the balls in their starting positions, for the next round.

RESTARTING THE GAME

You can interrupt the game at any time and start over by pressing the SYSTEM RESET key and then typing RUN. If you don't want to restart (remember the sound and color show), then just press the SYSTEM RESET key to return to BASIC.

PROGRAM WARNINGS

JOYSTICK CONTROL

When you make your ball, distance, and direction selections by pushing the joystick forward, you'll often notice the selection is one number greater than you had intended. This condition is caused by the speed of the computer when scanning for joystick movement. Slow, deliberate forward pushes should prevent this overshooting from happening.

Once you press the red button for each selection, you can't change your mind. Therefore, look at your choices carefully before pressing the button.

DISPLAY SCREEN CLARITY

Some of the ball numbers may be difficult to read (especially the 10) if your TV screen isn't tuned correctly. Tune your set so that all the numbers are readable before starting to play.

ADVANCED TECHNICAL INFORMATION

CREATING BALLS, BUMPERS, AND DIRECTION ARROWS

At the start of the game, as the message "Please wait while I create the balls" displays, the program is moving and changing the Display List to create new characters needed for displaying balls with numbers in them, the eight direction arrows, and the bumpers.

PRIMARY VARIABLES USED IN BUMPER POOL PROGRAM

VARIABLE	EXPL	TAMA	ION		1	
F(10,4)	F(n+)	<)	F(x,1)	F(x,2)	F(x,3)	F(x,4)
CONTRACTOR CONTRACTOR	BALL	1	x position	y position	direction	distance
THIS ARRAY HOLDS	BALL	2	- 11	300		**
ALL DATA PER-	BALL	3		.0.	" /2	
TAINING TO EACH	BALL	4			n 20	100
BALL, When	BALL			.00		
F(x,1)=0 and when	BALL	6	"		//907	
F(x,4)=0 then the		7	.0	10	411	
ball is "down".	BALL	8			4.0	
When just	BALL		- 0	n		
F(x,4)=0, then			30		0	
the ball isn't in					7	
motion.				100		

MX	Used for calculation of new x position of Dall
WY	Used for calculation of new y position of ball
x	Used to hold current × position of ball
Y	Used to hold current y position of ball
P	Holds current player number
Q	Holds y position of player data entry
D	Holds current ball direction
В	Holds current ball number being tested
L	Holds value of position the ball is attempting to move
ND	Holds calculation result of new direction when the ball hits another ball, bumper, or table
G	Counter for balls down for player stick #1 (left)
G1	Counter for balls down for player stick #2 (right)
TR	Value of red joystick button
ST	Value of joystick position. RAM location of new character list

TMS, WT, DELAY, T, BUMPER, A, Miscellaneous FOR-NEXT loop variables MOVE, SC, PING Open screen as output device, go change character list, set margins and dimension primary array. Clear screen, get rid of the cursor, go draw the play table, set misc. variables to zero. Start of main routine — increment player #, reset the attract mode to C, set text horiz. position. Oc input player variables, rotate player #. Start loop to check status of each ball — check if call is active or in motion. Check if all balls have been stopped. Next turn.

Get x,y coordinates. Get the . direction value. If value is 2,3 or 4 then increment to move right. If value is 6,7 or 8 then decrement to move left. If value is 1,2 or 8 then decrement to move up. If value is 4,5 or 6 then increment to move down. Get the value of the "move to" position. If not a blank area then go to handle encountered object. Check if ball will pass thru corner (left) Check if balls 1 - 5 will go in right opening. Check if balls 6 - 10 will go in left opening. Check and handle ball going in wrong hole on right.

Check and handle ball going in wrong hole on left.

Draw ball in new position, erase ball from old position, and store new x,y coordinates of the ball. Make ball swishing sound then decrement the distance variable by 1. Go handle next ball.

Calculate new direction if move not possible.

Calculate new direction if bumper encountered.

Calculate new direction if cusion is encountered.

If cusion was encountered then make sound hitting the cusion, set direction value with new direction. If enother ball was encountered then set direction of ball hit, set new direction of hitting ball.

BUMPER POOL PROGRAM LISTING 10 REH BUMPER POOL - BY STEVE SMITH 20 REM 7516 BURKE STREET, NE 38 REM ALBUQUERQUE, NH 87109 40 OPEN \$1,12,0,"S:":GOSUB 9000:POKE 82.0:POKE 83.39:DIM F(10.4) 50 PRINT "D":POKE 752.1:POSITION 0.1:PUT #1.32:GOSUB 8008:P=0:G=0:G1=0 180 SOUND 0.0.0.01P=P+1:G=14:POKE 77.8:IF P=2 THEN G=34 110 GOSUB 6990:IF P=2 THEN P=0 280 R=8:FOR E=1 TO 10:IF F(B,1) 00 AND F(B,4) OO THEN 220 215 R=R+B:NEXT B:IF R=55 THEN 100 217 GOTO 200 220 X=F(B.1):Y=F(B.2):D=F(B.3):WX=X:WY=Y:IF D>1 AND D<5 THEN WX=X+1 258 IF 0>5 THEN MX=X-1 260 IF D=1 OR D=2 OR D=8 THEN WY=Y-1 270 IF 0>3 AND 0<7 THEN WY=Y+1 280 LOCATE WX.WY.L:IF LO32 THEN GOTO 458 290 IF WY<3 OR WY>17 THEN 450 345 IF B<6 AND NX=38 THEN 5000 350 IF 8>5 AND HX=2 THEN 5000 355 IF NX=38 AND 8>5 AND (D>1 AND D<5) THEN F(B,4)=1:GOTO 410 356 IF MX=2 AND BK6 AND D>5 THEN F(B,4)=1:GOTO 410 360 POSITION WX.HY:PUT #1.B+2:POSITION X,Y:PUT #1,32:F(B,1)=XX:F(B,2)=XY 410 SOUND 1.0.0.0:SOUND 0.50+L.8.2:F(B.4)=F(B.4)-1:NEXT B:GOTO 450 I=F(8.3):ND=I-4:IF NDK0 THEN ND=I+4:IF ND=1 OR ND=3 OR ND=5 OR ND=7 THEN 465 451 IF L=28 THEN ND=ND+1:IF ND>8 THEN ND=1 452 IF L=20 THEN 465 453 ND=I-4:IF (ND=-2 OR ND=2) AND (LOZZ AND LO13) THEN ND=4:00TD 465 454 IF (MD=-2 OR MD=2) AND (L 02 AND LO14) THEN NO=8:GOTO 465 456 IF (ND=8 OR ND=4) AND (L > 13 AND LO2) THEN ND=6:GOTO 465 457 IF (ND=8 DR ND=4) AND (L<14 AND LO22) THEN NO=2 465 IF L=2 OR L>12 THEN SOUND 1.15.6.15:F(B,3)=ND:GOTO 410 F(L-2,3)=I:F(L-2,4)=F(B,4):F(B,3)=MD:S0U

ND 1,15,18,15:GOTO 410

Reset for/next loop, increment left player score, setup for ball down logic, and check for end of game. Increment right player score, setup for ball down logic, and check for end of game. Trase ball from play area, set ball to inactive, set all balls to not in motion.

Ring the bell and flash some color.

Go to handle next player input.

End of Game. Clear screen, display winning player.

Make sound for a winner.

Go to redraw the screen for new game. Set up play colors for left player.

Set up play colors for right player.

Prepare for and position entry of ball selection.

Initiate loop to accept left player entries.

Initiate loop to accept right player entries.

Only display ball numbers that are active. Special handling to display two digit ball number.

Check if the fire button is pressed.

Check for stick forward (up) movement to increment the ball #; cause dalay, go try next ba 11 #.

Reset ball selection loop.

Prepare for and position entry of direction. Display the proper arrow direction.

Check if fire button is pressed.

Check for stick forward (up) movement. Inc. direction.

Retry fire button and stick movement.

Reset direction to up if direction over limit.

Display arrow direction, cause delay, try again.

Set direction variable to chosen direction.

5000 REH PUT BALL IN HOLE 5002 SOLMO 0.0.0.0 5005 POP (IF BK6 THEN G=G+1:GZ=G:IF G=5 THEN 5015 5006 IF 8>5 THEN G1=G1+1:G2=G1:IF G1=5 THEN 5015 5007 POSITION X,Y:PUT #1,32:F(B,1)=0:F(B,4)=0:FOR T=1 TO 10:F(T,4)=0:NEXT T 5008 FOR THS=1 TO 81VL=10:IR=0.5:LM=3:GOSUB 5010:NEXT TMS4VL=5: IR=0.9:LH=1:GOSUB 5010 5009 POSITION G+G2,22:PUT #1,8+2:SOUND 2,0,0,0;SOUND 3,0,0,0;POKE 710,194;GOTO 5010 SDUND 2,48,10, VL:SDUND 3,42,10, UL; UL=UL*IR; POKE 710, UL+64; IF VL)LH THEN 5010 5012 RETURN 5015 PRINT #1:">":POSITION 10,18 5020 IF P=1 THEN PRINT \$1:"LEFT STICK 5030 IF PO1 THEN PRINT #1;"RIGHT STICK 5040 COL=38:L0=57:HI=45:NT=HI:FOR TIM=0 TO 4:POKE 710,COL:SOUND 2,NT,10,14:FOR HT=1 TO 180:NEXT WT 5845 NT=L0:L0=HI:HI=NT:COL=COL-2:NEXT 5050 SDUMD 2,0,0,0:SDUMD 3,0,0,0:GDTD 50 6990 REM ENTER BALL SELECTION 6992 IF P=1 THEN POKE 710,194:POKE 6994 IF PO1 THEN POKE 710,206:POKE 709.68 7000 POSITION Q,19:PUT \$1,32:POSITION 0+1,19:PUT #1,32:POSITION 0,20:PUT #1,32:POSITION 0,21:PUT #1,32:POSITION 0 7010 IF P=1 THEN FOR B=1 TO 5:IF F(B,1) 0 THEN PUT \$1,8+48 7020 IF PO1 THEN FOR 8=6 TO 10:IF F(B,1) OO AND BK10 THEN PUT \$1.8+48:PRINT \$1:" " 7025 IF F(B,1)=0 THEN NEXT B:GOTO 7010 7030 IF PO1 AND B=10 THEN PRINT \$1;"1";"0" 7040 TR-STRIG(P-1):ST-STICK(P-1):IF TR=0 THEN 7070 7050 IF ST=14 THEN GOSUB 9500:POSITION 0,19:COSUE 7400:NEXT 8:COTO 7010 7060 COTO 7040 7070 POP 7100 REH ENTER DIRECTION 7118 POSITION 0,20:D=1:PUT \$1,D+23:GDSUE 7400 7120 TR=STRIG(P-1):IF TR=0 THEN 7160 7130 ST=STICK(P-1):IF ST=14 THEN D=0+1 7135 IF ST 014 THEN 7120 7140 GOSUB 9500:IF D>B THEN D=1 7150 POSITION 0,20:PUT #1,23+0:GOSUB 7400:GOTO 7120

7160 F(E,3)=0

Prepare for and position entry of distance, use longer delay for this area.

Check if the fire button is pressed.

Check if the stick movement is for ward (up)

Reset distance to 1 if distance over limit (9). Display next distance number and cause delay.

Set distance variable to chosen distance.

Short delay routine.

Draw right opening stopper.

Draw top of table.

Draw right side of table.

Drew bottom of table.

Draw left side of table.

Draw right opening.

Draw left opening stopper, and left opening.

Draw bumpers at x,y coordinates from data statement.

Print text for player input at bottom of screen.

Put new start of character list location in memory area where BASIC expects to find it.(see 9020) Draw bells at x,y coordinates from data statement using newly defined characters. 7200 REM ENTER DISTANCE 7210 POSITION Q,21:PUT \$1,49:S=1:FOR DELAY=1 TO 100: MEXT DELAY 7220 TR=STRIG(P-1):IF TR=0 THEN 7260 7230 ST=STICK(P-1):IF ST=14 THEN S=S+1 7235 IF STO14 THEN 7220 7240 GOSUB 9500: IF S>9 THEN S=1 7250 POSITION 0.21:PUT \$1.48+S:GOSUB 7400:GDTO 7220 7268 F(B,4)=Sx6 7270 RETURN 7400 FOR DELAY=1 TO 50:NEXT DELAY: RETURN 8000 REM DRAW THE TABLE 8005 POKE 710,53:FOR T=9 TO 11:POSITIO 39,T:PUT #1,2:NEXT T 8010 FOR T=3 TO 37:POSITION T,2:PUT \$1.14:NEXT T 8020 FOR T=3 TO 17:POSITION 38,T:PUT \$1,22:NEXT T 8030 FOR T=37 TO 3 STEP -1:POSITION T.18:PUT \$1.13:NEXT T 8040 FOR T=17 TO 3 STEP -1:POSITION 2.T:PUT #1.2:NEXT T 8050 FOR T=9 TO 11:POSITION 38,T:PUT \$1.32:NEXT T 8060 FOR T=9 TO 11:POSITION 2,T:PUT \$1,32:POSITION 1.T:PUT \$1,22:NEXT T 8070 RESTORE B098 8080 FOR BUMPER=1 TO 12:READ X,Y:POSITION X,Y:PUT \$1,20:NEXT BUFFER 8098 DATA 5,8,5,12,35,8,35,12,20,6,20,8,20,12,20, 4,16,18,18,18,22,10,24,10 8100 REH DRAW INSTRUCTIONS 8138 POSITION 2,19:PRINT #1:"LEFT BALL:":POSITION 2,28:PRINT #1; "DIRECTION: ": POSITION 2,21:PRINT #1;"DISTANCE:"; 8135 POSITION 2,22:PRINT \$1;"BALLS 8140 POSITION 22,19:PRINT #1;"RIGHT BALL:":POSITION 22,20:PRINT #1:"DIRECTION:":POSITION 22,21:PRINT \$1:"DISTANCE 8145 POSITION 22,22:PRINT \$1;"ENLIS DOMN"; 8158 REM DRAW BALLS 8160 POKE 756, SL/256: REM RELOCATE STATE OF CHAR, LIST 8170 FOR A=1 TO 10:READ X,Y:F(A,1)=X:F(A,2)=Y:F(A,3)=0:F(A,4)= POSITION X, Y:PUT \$1, A+2:NEXT A 8180 DATA 6,4,6,7,6,10,6,13,6,16,34,4,34,7,34,18 4,13,34,16 8190 RETURN

Calculate area at top of BAM to receive the new character list. Setup top of RAM location. Clear screen, set margins, clear cursor, then print the initial screen with game information.

Move the necessary portions of the character display list from RDM and poke the display into high RAM. Create random music sounds.

Create random border colors. The random sounds and colors are an attempt to reduce boredom while the display list is being moved.

Create the bumper, balls, and arrow characters from the values in the following data statements and load them into the new character list area's which are also part of the data statements. Each data statement contains data for two characters except for the last one which contains three.

Ping sound routine for player data selection noise.

End of Program

9000 REM MOVE CHARACTER LIST 9010 POKE 106, PEEK(106)-S:GRAPHICS 8+16 9020 SL=(PEEK(196)+1)*256 9025 PRINT ">":POKE 82.0:POKE 83,39:POKE 752,1:POSITION 2.1:PUT \$1,32:POSITION 14,7:PRINT \$1; "WELCOME TO THE" 9026 POSITION 10,9:PRINT \$1;"BUHPER POOL TOURNAMENT" 9027 POSITION 5,11:PRINT #1;"2 PLAYERS USING JOYSTICKS 1 AND 2!" 9028 POSITION 9,13:PRINT #1:"STICK #1 USES BALLS 1-5" 9029 POSITION 8,15:7 \$1:"STICK \$2 USES BALLS 6-10":POSITION 3,17:PRINT \$1:"PLEASE WAIT WHILE I CREATE THE BALLS" 9030 FOR HOVE=8 TO 720:POKE SL+HOVE, PEEK (57344+HOVE); SOUND 0,RMD(8)x75,10,6:POKE 712,MDUE/3:NEXT 9848 SOUND 0,8,0,8:POKE 712,40:RESTORE 9888 9060 REM CHANGE CHARACTERS 9070 FOR SC=1 TO 19:READ LOC:FOR CHAR=0 TO 7:READ VALUE:POKE LOC+SL+CHAR, VALUE : NEXT CHAR: NEXT SC 9880 DATA 536,60,126,231,231,231,231,126,60,544,60 ,66,251,195,223,195,126,60 9120 DATA 552,60,66,251,243,251,195,126,60,560,60, 98,219,195,251,251,126,68 9160 DATA 568,68,66,223,195,251,195,126,68,576,68, 95,223,195,219,195,126,60 9180 DATA 584,60,66,251,247,239,223,126,60,592,60, 66,219,195,219,195,126,60 9200 DATA 680,60,66,219,219,195,251,122,60,608,60, 126,209,213,213,209,126,60 9228 DATA 704,8,28,42,73,8,8,8,8,712,31,3,5,9,17,3 2,64,128 9230 DATA 720,0,8,4,2,255,2,4,8,728,128,64,32,17,9 ,5,3,31 9240 DATA 736,8,8,8,8,73,42,28,8,744,1,2,4,136,144 .160,192,248 9250 DATA 752,8,16,32,64,255,64,32,16,768,248,192, 160,144,136,4,2,1,672,60,126,255,255,255 255,126,60 9260 RETURN 9500 SOUND 0,20,10,5:FOR PING=1 TO 30:NEXT PING:SOUND 0,0.0,8:RETURN 9999 END

LIMITED WARRANTY ON MEDIA AND HARDWARE ACCESSORIES.

We, Atari, Tic., guarantee to you, the original retail purchaser, that the medium on which the APX program is recorded and any hardware accessories sold by APX are free from defects for thirty days from the date of purchase. Any applicable implied warranties, including warranties of merchantability and fitness for a particular purpose, are also limited to thirty days from the date of purchase. Some states don't allow limitations on a warranty's period, so this limitation might not apply to you. If you discover such a defect within the thirty-day period, call APX for a Return Authorization Number, and then return the product along with proof of purchase date to APX. We will repair or replace the product at our option.

You void this warranty if the APX product: (1) has been misused or shows signs of excessive wear; (2) has been damaged by use with non-ATARI products; or (3) has been serviced or modified by anyone other than an Authorized ATARI Service Center. Incidental and consequential damages are not covered by this warranty or by any implied warranty. Some states don't allow exclusion of incidental or consequential damages, so this exclusion might not apply to you.

DISCLAIMER OF WARRANTY AND LIABILITY ON COMPUTER PROGRAMS.

Most APX programs have been written by people not employed by Atari, Inc. The programs we select for APX offer something of value that we want to make available to ATARI Home Computer owners. To offer these programs to the widest number of people economically, we don't put APX products through rigorous testing. Therefore, APX products are sold "as is", and we do not guarantee them in any way. In particular, we make no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. We are not liable for any losses or damages of any kind that result from use of an APX product.