

# Program Description I

Program Title PROGRAMMERS' BELL SLOT MACHINE

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## Program Description, Equations, Variables

PLACEMENT OF SYMBOLS ON WHEELS:			
SYMBOL	NUMBER ON WHEEL 1	NUMBER ON WHEEL 2	NUMBER ON WHEEL 3
CHERRY	6	6	0
ORANGE	5	4	7
BELL	4	6	5
LEMON	3	2	4
WATERMELON	2	1	3
BAR	1	1	1
TOTAL	20	20	20

EACH SPIN COSTS \$1.00

JACKPOTS: $Y, X = 1, 2, 3, 4, 5, \text{ or } 6$	PAYOFF	PAYOFF
CHERRY - ANYTHING - ANYTHING $6XY$	\$3.00	LEMON-LEMON-LEMON 333 \$20
CHERRY - CHERRY - ANYTHING $66X$	\$5.00	BAR-BAR-BAR 111 \$200
ORANGE - ORANGE - BAR $551$	\$6.00	
BELL - BELL - ORANGE $445$	\$8.00	
WATERMELON - WATERMELON - WATERMELON $222$	\$10.00	
LEMON - LEMON - LEMON $331$	\$15.00	
ORANGE - ORANGE - ORANGE $555$	\$18.00	

## Operating Limits and Warnings

This program has been verified only with respect to the numerical example given in *Program Description II*. User accepts and uses this program material AT HIS OWN RISK, in reliance solely upon his own inspection of the program material and without reliance upon any representation or description concerning the program material.

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Sketch(es)

Sample Problem(s) CLEAR REGISTERS AND LOAD SEED 0.3268175

SPIN: ① 655 (CHERRY-ORANGE-ORANGE) (WIN \$3.)

AGAIN ② 255 (WATERMELON-ORANGE-ORANGE)

AGAIN ③ 445 (BELL-BELL-ORANGE) (WIN \$8.)

AGAIN ④ 362 (LEMON-CHERRY-WATERMELON)

⑤ HOW MUCH HAVE WE WON? \$7.

SPIN ⑥ 565 (ORANGE-CHERRY-ORANGE)

AGAIN ⑦ 264 (WATERMELON-CHERRY-BELL)

⑧ HOW MUCH HAVE WE WON? \$5.

Solution(s) [F] [CLREG] 0.3268175 [E] 3.26817500-01

① [A] → 655

② [A] → 255

③ [A] → 445

④ [A] → 362

⑤ [B] → 7

⑥ [A] → 565

⑦ [A] → 264

⑧ [B] → 5

Reference(s) SPENCER, DONALD, GAME PLAYING WITH COMPUTERS, REVISED  
SECOND EDITION, HAYDEN BOOK CO., INC., ©1975, PP. 168-9



# Program Listing I

STEP	KEY ENTRY	KEY CODE	COMMENTS	STEP	KEY ENTRY	KEY CODE	COMMENTS
001	f LBL A	31 25 11	SPIN		-	51	
	0	00	SPIN FIRST WHEEL		f x<0	31 71	
	h STI	35 33			GTO 0	22 00	
	g GSB fe	32 22 15		060	f ISZ	31 34	
	f ISZ	31 34			3	03	
	4	04			0	00	
	-	51			-	51	
	f x<0	31 71			f x<0	31 71	
	GTO 0	22 00			GTO 0	22 00	
010	f ISZ	31 34			f ISZ	31 34	
	1	01			2	02	
	5	05			0	00	
	-	51			-	51	
	f x<0	31 71		070	f x<0	31 71	
	GTO 0	22 00			GTO 0	22 00	
	f ISZ	31 34			f ISZ	31 34	
	h LSTX	35 82			f LBL 0	31 25 00	
	-	51			h RCI	35 34	
	f x<0	31 71			EEX	43	
020	GTO 0	22 00			1	01	
	f ISZ	31 34			x	71	
	2	02			STO + 0	33 61 00	
	0	00			RCL 0	34 00	
	-	51		080	h PSE	35 72	DISPLAY IT
	f x<0	31 71			h x≥I	35 24	SPIN THIRD WHEEL
	GTO 0	22 00			g GSB fe	32 22 15	
	f ISZ	31 34			f ISZ	31 34	
	2	02			4	04	
	5	05			-	51	
030	-	51			f x<0	31 71	
	f x<0	31 71			GTO 0	22 00	
	GTO 0	22 00			f ISZ	31 34	
	f ISZ	31 34			1	01	
	f LBL 0	31 25 00		090	5	05	
	h RCI	35 34			-	51	
	EEX	43			f x<0	31 71	
	2	02			GTO 0	22 00	
	x	71			f ISZ	31 34	
	STO 0	33 00			2	02	
040	h PSE	35 72	DISPLAY IT		0	00	
	0	00	SPIN SECOND WHEEL		-	51	
	h STI	35 33			f x<0	31 71	
	g GSB fe	32 22 15			GTO 0	22 00	
	f ISZ	31 34		100	f ISZ	31 34	
	4	04			2	02	
	-	51			5	05	
	f x<0	31 71			-	51	
	GTO 0	22 00			f x<0	31 71	
	f ISZ	31 34			GTO 0	22 00	
050	5	05			f ISZ	31 34	
	-	51			f LBL 0	31 25 00	
	f x<0	31 71			h x≥I	35 24	
	GTO 0	22 00			STO 0	33 00	PAYOFF
	f ISZ	31 34		110	6	06	
	1	01			6	06	
	0	00			0	00	

## REGISTERS

0 USED	1 WINNINGS	2	3	4	5	6	7	8	9
S0	S1	S2	S3	S4	S5	S6	S7	S8	S9
A	B	C	D	E RANDOM NUMBER SEED	I USED				

STEP	KEY ENTRY	KEY CODE	COMMENTS	STEP	KEY ENTRY	KEY CODE	COMMENTS
	g x≤y	32 71			GTO 9	22 09	
	GTO 1	22 01		170	f LBL 2	31 25 02	PAYOFF 6XY
	6	06			3	03	
	0	00			GTO 9	22 09	
	-	51			f LBL 3	31 25 03	PAYOFF 555
	g x≤y	32 71			1	01	
	GTO 2	22 02			8	08	
120	4	04			GTO 9	22 09	
	5	05			f LBL 4	31 25 04	PAYOFF 551
	-	51			6	06	
	g x=y	32 51			GTO 9	22 09	
	GTO 3	22 03		180	f LBL 5	31 25 05	PAYOFF 445
	4	04			8	08	
	-	51			GTO 9	22 09	
	g x=y	32 51			f LBL 6	31 25 06	PAYOFF 333
	GTO 4	22 04			2	02	
	1	01			0	00	
130	0	00			GTO 9	22 09	
	6	06			f LBL 7	31 25 07	PAYOFF 331
	-	51			1	01	
	g x=y	32 51			5	05	
	GTO 5	22 05		190	GTO 9	22 09	
	1	01			f LBL 8	31 25 08	PAYOFF 222
	1	01			1	01	
	2	02			0	00	
	-	51			GTO 9	22 09	
	g x=y	32 51			f LBL B	31 25 12	DISPLAY
140	GTO 6	22 06			RCL 1	34 01	WINNINGS
	2	02			h RTN	35 22	
	-	51			f LBL E	31 25 15	LOAD SEED
	g x=y	32 51			STO E	33 15	
	GTO 7	22 07		200	h RTN	35 22	
	1	01			g LBL f	32 25 15	GENERATE RANDOM
	0	00			RCL E	34 15	NUMBER
	9	09			9	09	
	-	51			9	09	
	g x=y	32 51			7	07	
150	GTO 8	22 08			x	71	
	2	02			g FRAC	32 83	
	÷	81			STO E	33 15	
	g x=y	32 61			EEX	43	
	h SF 2	35 51 02		210	2	02	
	2	02			x	71	
	0	00			h RTN	35 22	
	0	00			f -		
	f LBL 9	31 25 04					
	1	01					
160	CHS	42					
	h F 2?	35 71 02					
	0	00					
	+	61					
	STO + 1	33 61 01		220			
	RCL 0	34 00	DISPLAY				
	h RTN	35 22	SPIN				
	f LBL 1	31 25 01	PAYOFF 66X				
	5	05					

LABELS					FLAGS		SET STATUS		
A	B	C	D	E (SEED (S→))	0	FLAGS		TRIG	DISP
a	b	c	d	8 RANDOM NUMBER	1	ON OFF			
0 WHAT WAS SPUN?	1 PAYOFF 66X	2 PAYOFF 6XY	3 PAYOFF 555	4 PAYOFF 551	2 SPIN INCT	0	<input type="checkbox"/>	DEG <input checked="" type="checkbox"/>	FIX <input checked="" type="checkbox"/>
5 PAYOFF 445	6 PAYOFF 333	7 PAYOFF 331	8 PAYOFF 222	9 PAYOFF 111	A JACK PCT?	1	<input type="checkbox"/>	GRAD <input type="checkbox"/>	SCI <input type="checkbox"/>
						2	<input type="checkbox"/>	RAD <input type="checkbox"/>	ENG <input type="checkbox"/>
						3	<input type="checkbox"/>		n <u>0</u>