

Program Description I

Program Title SUPER BAGELS-- "EASY-DOES-IT"

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Program Description, Equations, Variables This ANSWER ROUTINE was designed to be
used in conjunction with the HP 67/97 GAMES PAC I program 7--
" S U P E R B A G E L S . "

In the last part of the program description, the user is
invited to try "to discover the hidden number in some manner other
than by using the clues given. . . . Super Bagels has been written
to hide the number as much as possible." That is as accurate a
statement as has ever been written!!

This program is not intended to be used as a substitute
for your "brain power," but as a "relief-giver" to your frustrations
that have occurred after twenty minutes or so of trying to determine
a seven- or eight-digit number without success!! Before banging
your head (or calculator) against a very hard wall . . .

"EASY-DOES-IT" --- use this program!!

Operating Limits and Warnings This program may only be used AFTER one or more
guesses have been made using the original SUPER BAGELS program.
The ultimate answer is determined by multiplying the first guess
times the seed control.

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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TIAL DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE FURNISHING, USE OR PERFORMANCE OF THIS PROGRAM
MATERIAL.

Sketch(es)

Sample Problem(s) EXAMPLE #1--

Play a game with 4 digits, each in the range 0-5.

Load sides 1 and 2 of "SUPER BAGELS."

Keystrokes:

Outputs:

1.005489762	<input type="text" value="A"/>	→	4.5	
1234	<input type="text" value="E"/>	→	3.1234	(3 digits right)
4123	<input type="text" value="E"/>	→	3.4123	(3 digits right)
1342	<input type="text" value="E"/>	→	12.1342	(2 right, 1 in right place)
1002	<input type="text" value="E"/>	→	10.1002	(1 in right place)
1552	<input type="text" value="E"/>	→	20.1552	(2 in right place)
4532	<input type="text" value="E"/>	→	13.4532	(3 right, 1 in right place)

Frustrations take over!!

Load side 1 ONLY of "EASY-DOES-IT."

Selection test DO IT!	<input type="text" value="A"/>	→	3.	(1st digit)
			4.	(2nd digit)
			5.	(3rd digit)
			2.	(4th digit)
			0.00000	(CL x)

Re-load sides 1 and 2 of "SUPER BAGELS."

3452	<input type="text" value="E"/>	→	40.3452	(CORRECT!)
			7.0	(7 guesses)

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Reference(s)

HP 67-97 GAMES PAC I -- "SUPER BAGELS" program.

This program is listed as #00180D in the Users' Library.

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EXAMPLE #2--

Play a game with 8 digits, each in the range 0-9.

Keystrokes:		Outputs:
12.91827364	[A] →	4.5
8	[B] →	8.5
9	[C] →	8.9
11112222	[E] →	20.11112222 (2 in right place)
33334444	[E] →	0.33334444 (0 right)
55556666	[E] →	2.55556666 (2 right)
77778888	[E] →	1.77778888 (1 right)
99990000	[E] →	21.99990000 (1 right, 2 in right place)
16902597	[E] →	23.16902597 (3 right, 2 in right place)
19992999	[E] →	20.19992999 (2 in right place)
68902205	[E] →	26.68902205 (6 right, 2 in right place)
68900522	[E] →	26.68900522 (6 right, 2 in right place)
68902520	[E] →	26.68902520 (6 right, 2 in right place)
68905202	[E] →	26.68905202 (6 right, 2 in right place)
68902052	[E] →	26.68902052 (6 right, 2 in right place)
68902502	[E] →	44.68902502 (4 right, 4 in right place)
98602502	[E] →	53.98602502 (3 right, 5 in right place)

Frustrations really take over!! You can't stand any more!!

Load side 1 ONLY of "EASY-DOES-IT."

DO IT!	[A] →	0.	(1st digit)
		9.	(2nd digit)
		6.	(3rd digit)
		8.	(4th digit)
		2.	(5th digit)
		5.	(6th digit)
		0.	(7th digit)
		2.	(8th digit)
		0.00000	(CL x)

Well, as it turns out, you were on the right track!

Anyway, RE-LOAD sides 1 and 2 of "SUPER BAGELS."

09682502	[E] →	80.09682502	(CORRECT!)
		15.	(15 guesses)

EXAMPLE #3--

Play a game with 5 digits, each in the range 0-5.

Keystrokes:	Outputs:
1.892376542	
EEX CHS 14 A \longrightarrow	4.5
5 B \longrightarrow	5.5
55555 E \longrightarrow	20.55555 (2 in the right place)
CHEAT! cheat! CHEAT! cheat! CHEAT! cheat! CHEAT!	

[Programmer's note: I apologize for including this example, but after all, this is one possible "application" of the "EASY-DOES-IT" program that you paid for!!]

Load side 1 ONLY of "EASY-DOES-IT."

DO IT! A \longrightarrow	5. (1st digit)
	2. (2nd digit)
	4. (3rd digit)
	0. (4th digit)
	5. (5th digit)
	0.00000 (CL x)

Re-load sides 1 and 2 of "SUPER BAGELS."

52405 E \longrightarrow	50.52405 (CORRECT, of course!)
	2. (2 guesses)

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STEP	KEY ENTRY	KEY CODE	COMMENTS	STEP	KEY ENTRY	KEY CODE	COMMENTS
001 ##	f LBL A	31 25 11	DO IT! (start)				
	RCL B	34 12					
	g FRAC	32 83					
	RCL A	34 11		060			
	h 1/x	35 62					
	+	61					
	STO 5	33 05					
	0	00					
	STO 6	33 06					
010 ##	f LBL 1	31 25 01	COMPUTE ANSWER				
	RCL E	34 15	RCL SEED				
	h 1/x	35 62	} alter the number				
	f → D	31 73	RCL #DIGITS	070			
	RCL B	34 12	} alter the number				
	f INT	31 83	÷				
	g 10 ^x	32 53					
	÷	81					
	STO 7	33 07					
##	f LBL 2	31 25 02	DISPLAY ANSWER				
020	1	01	(COUNTER)				
	STO + 6	33 61 06					
	RCL 7	34 07					
	g FRAC	32 83	← "ANSWER"				
	RCL A	34 11		080			
	X	71					
	STO 7	33 07					
	DSP 0	23 00					
	RCL 5	34 05					
	X	71					
030	f INT	31 83					
	↑	41					
	RCL B	34 12					
	f INT	31 83	} Have all of the digits been shown?	090			
	RCL 6	34 06					
	g x=y	32 51					
	GTO 3	22 03					
	h R↑	35 54					
	h R↑	35 54					
	f -x-	31 84	PRINT digits				
040	GTO 2	22 02					
##	f LBL 3	31 25 03	FINISH/RE-SET				
	h R↑	35 54					
	h R↑	35 54					
	f -x-	31 84	PRINT last digit.	100			
	h SF 0	35 51 00					
	h CF 1	35 61 01					
	h CF 2	35 61 02	Set flags and clear display.				
	DSP 0	23 00					
	CL x	44					
050	STO 5	33 05					
	STO 6	33 06					
	STO 7	33 07					
	h RTN	35 22		110			

NOTE: ALL REGISTERS are used by the regular SUPER BAGE program.

REGISTERS

0	1	2	3	4	5 .M + .1	6 # of DIGITS	7 temporary	8	9
S0	S1	S2	S3	S4	S5	S6	S7	S8	S9
A [10]	B [D.M]	C [# of GUESSES]	D [LAST GUESS]	E [SEED DERIVATIVE]	I				

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STEP	KEY ENTRY	KEY CODE	COMMENTS	STEP	KEY ENTRY	KEY CODE	COMMENTS
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[illegible]

LABELS					FLAGS	SET STATUS		
A	B	C	D	E		FLAGS	TRIG	DISP
Do IT!					0			
a	b	c	d	e	1	ON OFF		
						0 <input checked="" type="checkbox"/> <input type="checkbox"/>	DEG <input checked="" type="checkbox"/>	FIX <input checked="" type="checkbox"/>
						1 <input type="checkbox"/> <input type="checkbox"/>	GRAD <input type="checkbox"/>	SCI <input type="checkbox"/>
						2 <input type="checkbox"/> <input checked="" type="checkbox"/>	RAD <input type="checkbox"/>	ENG <input type="checkbox"/>
						3 <input type="checkbox"/> <input checked="" type="checkbox"/>		n <u>5</u>
0	1 COMPUTE ANSWER	2 DISPLAY ANSWER	3 FINISH AND RE-SET	4	2			
5	6	7	8	9	3			