

# 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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# 02039D Program Description II

### Sketch(es)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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**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	A	→	4.5
1234	E	→	3.1234 (3 digits right)
4123	E	→	3.4123 (3 digits right)
1342	E	→	12.1342 (2 right, 1 in right place)
1002	E	→	10.1002 (1 in right place)
1552	E	→	20.1552 (2 in right place)
4532	E	→	13.4532 (3 right, 1 in right place)

## Frustrations take over!!

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

Summarize DO IT! **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 **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)

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## EXAMPLE #3--

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

### Keystrokes:

1.892376542

[EEX] [CHS] 14 [A]  
5 [B]  
55555 [E]

### Outputs:

4.5

5.5

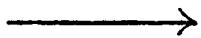
20.55555 (2 in the right place)

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]



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."

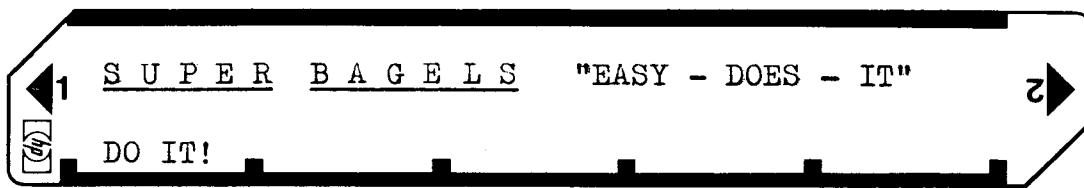
52405 [E]



50.52405 (CORRECT, of course!)  
2. (2 guesses)

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# User Instructions



STEP	INSTRUCTIONS	INPUT DATA/UNITS	KEYS	OUTPUT DATA/UNITS
1	Load side 1 and side 2 of "SUPER BAGELS"			
2	To start game, key in a seed (any no.) Output is in the form D.M* seed		A	4.5
3	Optional: Change the number of digits to be guessed. Refer to SUPER BAGELS instructions.	D.	B	D.M
4	Optional: Change the maximum digit found in the number to be guessed. Refer to SUPER BAGELS instructions.	M.	C	D.M
5	Guess a number containing D digits with the maximum size of each digit $\leq M$ .*	Guess	E	CW.Guess
6	Repeat step number 5 until you arrive at the correct answer. -OR-			
7	Load side 1 ONLY of "EASY-DOES-IT."			
8	DO IT!! (Find the hidden SUPER BAGELS number)		A	M. ** 0.00000
9	Step 8 may be repeated, if desired.			
10	RE-LOAD sides 1 and 2 of SUPER BAGELS.			
11	Key in the answer obtained from "EASY-DOES-IT" (EDI Guess)	EDI guess	E	DO.guess No. of Guesses
12	Go to step number 2 for a new game.			
* Refer to SUPER BAGELS instructions for explanation of "D.M" and "CW.Guess"				
** Output will be M. digits ( $n \leq M$ ) displayed D number of times, and then 0.00000.				

## Program Listing I

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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# Program Listing II

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LABELS					FLAGS	SET STATUS		
A	B	C	D	E	0	FLAGS	TRIG	DISP
a	b	c	d	e	1	ON OFF 0 <input checked="" type="checkbox"/> <input type="checkbox"/> 1 <input type="checkbox"/> <input checked="" type="checkbox"/> 2 <input type="checkbox"/> <input checked="" type="checkbox"/> 3 <input type="checkbox"/> <input checked="" type="checkbox"/>	DEG <input checked="" type="checkbox"/> GRAD <input type="checkbox"/> RAD <input type="checkbox"/>	FIX <input checked="" type="checkbox"/> SCI <input type="checkbox"/> ENG <input 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			