

HP-67 FOUR DIGITS BAGELS

REGISTERS

R1: 1st digit	R6: guess
R2: 2nd digit	R7: no. of guesses
R3: 3rd digit	R8: clue
R4: 4th digit	R9: seed
R5: control	RI: ind. control

INSTRUCTIONS

1. Store seed(0<n<1) : n, fA.

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01 LBL A 31 25 11	44 LBL 6 31 25 06
02 RCL 9 34 09	45 4 04
03 CLREG 31 43	46 ST I 35 33
04 STO 9 33 09	47 EEX 43
05 LBL 9 31 25 09	48 1 01
06 1 01	49 STO/6 33 81 06
07 STO+5 33 61 05	50 RCL 6 34 06
08 LBL 8 31 25 08	51 FRAC 32 83
09 RCL 5 34 05	52 STO-6 33 51 06
10 ST I 35 33	53 X 71
11 RCL 9 34 09	54 LBL 5 31 25 05
12 TAN ⁻¹ 32 64	55 RCL 1 34 24
13 FRAC 32 83	56 x ≠ y 35 52
14 STO 9 33 09	57 x=y? 32 51
15 EEX 43	58 GTO 4 22 04
16 1 01	59 DSZ 31 33
17 X 71	60 GTO 5 22 05
18 INT 31 83	61 GTO 3 22 03
19 LBL 7 31 25 07	62 LBL 4 31 25 04
20 RCL 1 34 24	63 RC I 35 34
21 x ≠ y 35 52	64 RCL 5 34 05
22 x=y? 32 51	65 x/y? 32 61
23 GTO 8 22 08	66 . 83
24 DSZ 31 33	67 1 01
25 GTO 7 22 07	68 STO+8 33 61 08
26 RCL 5 34 05	69 LBL 3 31 25 03
27 ST I 35 33	70 1 01
28 R# 35 53	71 STO-5 33 51 05
29 STO 1 33 24	72 RCL 5 34 05
30 RCL 5 34 05	73 x≠0? 31 61
31 4 04	74 GTO 6 22 06
32 x/y? 32 61	75 1 01
33 GTO 9 22 09	76 STO-7 33 51 07
34 0 00	77 4 04
35 DSP 1 23 01	78 RCL 8 34 08
36 RTN 35 22	79 STO-8 33 51 08
37 LBLfa 32 25 11	80 x/y? 32 61
38 STO 9 33 09	81 RTN 35 22
39 RTN 35 22	82 LBL 2 31 25 02
40 LBL B 31 25 12	83 RCL 7 34 07
41 STO 6 33 06	84 PAUSE 35 72
42 4 04	85 GTO 2 22 02
43 STO 5 33 05	86 R/S 84

2. Generate four-digit unknown number (all digits different): $A \rightarrow 0.0$
3. Try to guess: input a 4-digit guess, press B. Display a clue for a wrong guess, or the number of guesses (flashing with a negative sign) for a correct guess. The clue is of the form A.B, where A = no. of digits in correct position and B = no. of right digits but in the wrong position.
4. When a clue appears, repeat step 3.
5. For a new game, go to step 2.

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R/S