

BAGELS, LUCKY

Those of you familiar with the many Bagels games written for the HP-65 will appreciate the difficulty in getting even a very simple game to fit within the HP-25's 49 step limit without benefit of callable sub-routines (I gave up long ago trying to get any type of Bagels on the HP-55, with its lack of compares and integer/fraction separator, and its non-merged codes). The accompanying program shows how a revolving stack can step through the desired comparisons, and how zero-compares can be used to preserve the stack. Incidentally, the "Lucky" in the title warns the user that luck plays more of a role in this game than for the HP-65 games, where the user is given "pico" as well as "fermi" clues. Still, I find it reasonably stimulating to play, and often make a correct guess in 7 or 8 tries.

USER INSTRUCTIONS

1. Reload card. (ON-RUN).
2. Key in seed, press STO 0.
3. Key in constant, 10, press STO 1.
4. Press A, to generate 3 digit number which may have repeated digits.
5. Press CLX, key in first digit guess, press R/S.
6. Press CLX, key in second digit guess, press R/S.
7. Press CLX, key in third digit guess, press R/S. ***
***Score is displayed during pause, and is the total number of correct digits in correct places. A correct 3 digit guess produces a score of 3.
8. For a new guess, go to step #5.
9. For a new game, go to step #4.

Seed = .123456

#

512
433
271
307
884
766
107
156
463
705
030
618
928
109

001	f LBL A	31 25 11
002	3	03
003	STO 2	33 02
004	f LBL 2	31 25 02
005	CLX	44
006	RCL 0	34 00
007	h π_2	35 73
008	g x^2	32 54
009	x	71
010	g FRAC	32 83
011	STO 0	33 00
012	RCL 1	34 01
013	x	71
014	f INT	31 83
015	1	01
016	STO-2	33 51 02
017	CLX	44
018	RCL 2	34 02
019	f $X \neq 0?$	31 61
020	GTO 2	22 02
021	f LBL 6	31 25 06
022	CLX	44
023	3	03
024	STO 3	33 03
025	f LBL 5	31 25 05
026	CLX	44
027	R/S	84
028	g $X=Y?$	32 51

029	GTO 3	22 03
030	CLX	44
031	GTO 4	22 04
032	f LBL 7	31 25 07
033	h $X \leftrightarrow Y$	35 52
034	h $R \downarrow$	35 53
035	h $R \downarrow$	35 53
036	1	01
037	STO-3	33 51 03
038	CLX	44
039	RCL 3	34 03
040	f $X \neq 0?$	31 61
041	GTO 5	22 05
042	CLX	44
043	RCL 2	34 02
044	h PAUSE	35 72
045	CLX	44
046	STO 2	33 02
047	GTO 6	22 06
048	f LBL 3	31 25 03
049	CLX	44
050	1	01
051	f LBL 4	31 25 04
052	STO+2	33 61 02
053	CLX	44
054	+	61
055	ENTER	41
056	GTO 7	22 07