

Life Game

START				

L I F E G A M E

The game of life takes place on 10 squares.
In fact, it manages a living space of 14 boxes,
both boxes extreme left and right always remains
empty.

Occupied boxes are represented by the number eight and the empty boxes with the number one.

Rules of evolution:

- The neighborhood of a box consists of four boxes that surround it, two right and two left.
- Empty cells whose neighborhood has two or three microbes register a birth.
- Microbes whose neighborhood consists of four blanks die, same for those whose neighborhood has one or three boxes occupied.

Enter the first population of 10 digits.

Only with numbers one (1) or eight (8)

then press A

[illegible]

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LBL E STO 06 01 X/T RC* 04 EQ 00 28
RCL 06 X/T 01 08 EQ 00 27
03 02 EQ 00 27
01 ST* 04 RTN
RCL 06 X/T 01 08 EQ 00 42
02 05 EQ 00 42
RTN
08 ST* 04 RTN

// ##### START OF LIFE #####
LBL A CMS NOP D 01 STO 20 STO 21 01 00 STO 00 STO 01 RCL 07 / RCL 00 INV LOG
= INV INT * 01 00 = INT ST* 01 OP 21 DSZ 00 00 62
01 00 STO 00 STO 04 01 STO 01 STO 02 RCL 04 STO 05 RC* 04 STO 03 RCL 01 + RCL
02 + OP 25 RC* 05 + OP 25 RC* 05 = E RCL 03 EXC 02 STO 01 OP 24 DSZ 00 00 96
01 00 STO 00 STO 01 00 * 01 00 + RC* 01 = OP 21 DSZ 00 01 40
PRT PAU PAU PAU
X/T OP 29
1 1 1 1 1 1 1 1 1 1 EQ LNX
GTO 00 85
LBL LNX
ADV D'
RCL 09
R/S
LBL D STO 07
OP 00
D'
02 07 02 04 OP 02 02 01 01 07 00 00 02 02 01 03 OP 03 03 00 01 07 00 00 00 00
00 00 OP 04 OP 05
D'
ADV OP 00
02 07 02 04 02 01 01 07 00 00 OP 03 02 02 01 03 03 00 01 07 00 00 OP 04 OP 55
PAU PAU
RTN
LBL D'
06 04 06 04 06 04 06 04 OP 02 06 04 06 04 06 04 06 04 06 04 OP 03 06 04 06 04
06 04 06 04 00 00 OP 04 OP 05
RTN

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L A B E L S
001 15 E
047 11 A
176 23 LNX
183 14 D
255 19 D'

Adr	Branch.
027	016 67 EQ
027	021 67 EQ
028	008 67 EQ
042	033 67 EQ
042	038 67 EQ
062	081 97 DSZ
085	172 61 GTO
096	129 97 DSZ
140	149 97 DSZ
D	050 14 D
D'	178 19 D'
D'	188 19 D'
D'	221 19 D'
E	120 15 E
LNX	170 67 EQ

Reg.	Instr.
00	058 42 STO 065 43 RCL 087 42 STO 135 42 STO
01	060 42 STO 077 72 ST* 092 42 STO 104 43 RCL 125 42 STO 137 42 STO 144 73 RC*
02	094 42 STO 107 43 RCL 123 48 EXC
03	102 42 STO 121 43 RCL
04	006 73 RC* 025 72 ST* 043 72 ST* 089 42 STO 096 43 RCL 100 73 RC*
05	098 42 STO 112 73 RC* 117 73 RC*
06	002 42 STO 011 43 RCL 028 43 RCL
07	062 43 RCL 184 42 STO
09	179 43 RCL
20	052 42 STO
21	054 42 STO