

# Leapfrog

	n			
Init.	Jump			

You must exchange the two groups of frogs.  
 from 0.11102220 you must get 0.22201110  
 Each frog can jump forward another frog or  
 go one step forward.  
 Each frog 1 moves to the right.  
 Each frog 2 moves to the left.

Step	Procedure	Keys	Display
1	Initialization	A	0.11102220
2	Number of frog to move	n B	x.xxxxxxxx
3	Repeat Step 2 as many times as needed		

Leapfrog

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+-----+
LBL A' CMS 01 STO 02 STO 03 STO 04 02 STO 06 STO 07 STO 08 01 00 X/T 00 * .
01 + RC* 15 = EXC 15 + 01 = GE 00 43
EXC 15 GTO 00 21
LBL B' 08 STO 14 00 * . 01 + RC* 14 = DSZ 14 00 47
FIX 08 STO 11 X/T RCL 15 INV EQ 00 71
OP 42 RCL 11 RTN
INV FIX INV STF 01 STO 14 STO 12 CP RC* 14 EQ 00 71
RC* 12 X/T 01 INV EQ 01 18
01 SUM 14 00 X/T RC* 14 INV EQ 01 24
RC* 12 ST* 14 00 ST* 12 GTO 00 43
INV SUM 14 GTO 01 00
IFF 01 00 43
STF 01 GTO 00 89

// ##### INITIALIZATION #####
LBL A OP 59 D D' OP 00 02 07 OP 02 01 07 01 03 03 03 02 01 03 05 OP 03 03 02
02 02 00 00 00 00 00 00 OP 04 OP 05 D' 09 OP 41 A' PRT R/S

// ##### JUMP #####
LBL B X/T D' X/T SBR 00 74 X/T RCL 15 X/T PRT EQ C'
R/S

// ##### DASHED LINE #####
LBL D' OP 00 02 00 02 00 02 00 02 00 02 00 02 00 02 00 02 00 02 00 02 00 OP
03 02 00 02 00 02 00 02 00 02 00 02 00 OP 04 OP 05 RTN

// ##### WOM #####
LBL C' INV FIX D' OP 00 04 03 03 02 03 01 00 00 OP 03 07 03 00 00 00 00 00 00
00 00 OP 04 OP 05 D' RCL 15 E OP 42 R/S

// ##### DISPLAY TITLE #####
LBL D OP 00 00 00 00 00 01 07 03 01 02 05 OP 03 03 02 04 05 00 00 00 00 00 00
OP 04 OP 55 PAU PAU CLR 00 00 02 07 01 07 01 03 03 03 OP 03 02 01 03 05 03 02
02 02 00 00 OP 04 OP 55 PAU PAU RTN

// ##### DISPLAY WON #####
LBL E OP 00 04 03 01 07 02 07 02 07 00 00 OP 03 01 06 03 02 03 01 01 07 07 03
OP 04 OP 55 PAU PAU CLR 00 00 04 05 03 02 04 01 00 00 OP 03 04 03 02 04 03 01
00 00 07 03 OP 04 OP 55 RTN

// ##### DISPLAY DIGITS #####
LBL C 02 STO 02 STO 03 STO 04 00 STO 06 01 STO 05 STO 07 STO 08 . 02 02 02 01
00 01 01 STO 11 R/S
+-----+

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L A B E L S
001 16 A'
042 17 B'
134 11 A
179 12 B
195 19 D'
236 18 C'
274 14 D
336 15 E
396 13 C

Adr	Branch.
021	038 61 GTO
043	033 77 GE
043	115 61 GTO
043	124 87 IFF
047	054 97 DSZ
071	066 67 EQ
071	086 67 EQ
074	183 71 SBR
089	130 61 GTO
100	121 61 GTO
118	094 67 EQ
124	105 67 EQ
A'	175 16 A'
C'	191 67 EQ
D	137 14 D
D'	138 19 D'
D'	171 19 D'
D'	181 19 D'
D'	239 19 D'
D'	266 19 D'
E	269 15 E

Reg.	Instr.
02	004 42 STO 398 42 STO
03	006 42 STO 400 42 STO
04	008 42 STO 402 42 STO
05	408 42 STO
06	011 42 STO 405 42 STO
07	013 42 STO 410 42 STO
08	015 42 STO 412 42 STO
11	060 42 STO 071 43 RCL 422 42 STO
12	081 42 STO 089 73 RC* 108 73 RC* 113 72 ST*
14	044 42 STO 051 73 RC* 079 42 STO 084 73 RC* 098 44 SUM 102 73 RC* 110 72 ST* 119 44 SUM
15	025 73 RC* 028 48 EXC 036 48 EXC 063 43 RCL 187 43 RCL 267 43 RCL