

Fibonacci Sequence

Assembly Program/ Source Code	Object Code			
	Mem	Opcode	Operand	
LDI 1h	0000	0010	0001	
STA Ch	0001	0011	1100	
STA Dh	0010	0011	1101	
OUT	0011	1110	0000	
ADD Dh	0100	0100	1101	
OUT	0101	1110	0000	
STA Eh	0110	0011	1110	
LDA Ch	0111	0001	1100	
STA Dh	1000	0011	1101	
LDA Eh	1001	0001	1110	
STA Ch	1010	0011	1100	
JMP 4h	1011	1010	0100	
	1100	0000	0000	;Ch
	1101	0000	0000	;Dh
	1110	0000	0000	;Eh

Result: 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...

Project: Build an 8-bit Computer / Programming / Program #03 - Fibonacci Sequence	Date: 21/05/2018
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