Symbolic code

@16 //RAM[16] represents i -

A-instruction: @16 → 0000000000010000

M=1 // i = 1 -

C-instruction: dest = M, comp=1, jump= null

111 0 111111 001 000 → 1110111111001000 -

@17 //RAM[17] represents sum -

A-instruction: @17 → 0000000000010001

M=0 // sum = 0 -

C-instruction: dest=M, comp = 0, jump = null

111 0 101010 001 000 → 1110101010001000

@16 -

0000000000010000

D = M -

C-instruction: dest = D, comp=M, jump =null

111 1 110000 010 000 → 1111110000010000

Arq. Sistemas

@0 -

0000000000000000

D = D - M -

C-instruction: dest = D, comp = D-M, jump = null

111 1 010011 010 000 → 1111010011010000

@17 -

0000000000010001

D; JGT -

C-instruction: dest = null, comp = D, jump = JGT

1110 001100 000 001 → 1110001100000001

@16 -

0000000000010000

D = M -

1111110000010000

@17 -

0000000000010001

M = D + M -

Arq. Sistemel

C-Instruction: dest = M, comp = D+M, jump = null

111 1 000010 001 000 → 1111000010001000

@16 →

0000000000010000

M = M+1 →

C-Instruction: dest = M, comp = M+1, jump = null

111 1 110111 001 000 → 1111110111001000

@4 →

0000000000000100

0: JMP →

C-Instruction: dest = null, comp = 0, jump = JMP

111 0 101010 000 111 → 1110101010000111

@17 →

0000000000010001

D = M →

1111110000010000

@1 →

0000000000000001

Arq. Sistemas

M=D -

C-instrucción: dest=M, comp=D, jump=null

111 0 001100 001 000 → 1110001100001000

@21 -

0000000000010101

0; JMP -

1110101010000111