

Ejercicio 6b:

I) LOAD X:
 MAR := IR[11:0]
 MEM_READ
 AC := MDR

II) ADD X:
 MAR := IR[11:0]
 MEM_READ
 ALU.IN1 := AC
 ALU.IN2 := MDR
 ALU.add
 AC := ALU.OUT

III) JUMP X:
 PC := IR[11:0]

IV) SKIPCOND:
 ALU.IN1 := AC
 ALU.IN2 := AC
 ALU.sub
 ALU.IN2 := ALU.OUT
 ALU.sub
 if IR[11] = 1:
 if ALU.N = 0:
 INC.IN = PC
 INC.L
 PC := INC_EXT
 endif
 else
 if IR[10] = 0:
 if ALU.N = 1:
 INC.IN = PC
 endif
 endif
 endif

INC.L
 PC := INC_EXT
 endif
 else
 if ALU.Z = 1:
 INC.IN = PC
 INC.L
 PC := INC_EXT
 endif
 endif
 endif