








Class: CIS11 (22953)  
Assignment: Project  
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## Input/Output #1:

**LC3 Tutor**       

### Memory

Jump to address or label

0x	Label	Hex	Instruction
<input type="checkbox"/>	x2FFC	x0000	NOP
<input type="checkbox"/>	x2FFD	x0000	NOP
<input type="checkbox"/>	x2FFE	x0000	NOP
<input type="checkbox"/>	x2FFF	x0000	NOP
<input type="checkbox"/>	x3000	xE001	LEA R0, WEL
<input type="checkbox"/>	x3001	xF022	PUTS
<input type="checkbox"/>	x3002 WEL	x0045	NOP
<input type="checkbox"/>	x3003	x006E	NOP
<input type="checkbox"/>	x3004	x0074	NOP
<input type="checkbox"/>	x3005	x0065	NOP
<input type="checkbox"/>	x3006	x0072	NOP
<input type="checkbox"/>	x3007	x0020	NOP
<input type="checkbox"/>	x3008	x0035	NOP
<input type="checkbox"/>	x3009	x0020	NOP
<input type="checkbox"/>	x300A	x0073	NOP
<input type="checkbox"/>	x300B	x0063	NOP

### Status

**Registers**

R0: x0000	R1: x0000	R2: x0000	R3: x0000
R4: x0000	R5: x0000	R6: x0000	R7: x0000
PC: x3000	IR: x0000	PSR: x8002	CC: Z

☒ Follow PC

### Console

Enter 5 scores: (0 - 99)  
52 F  
87 B  
96 A  
79 C  
61 D  
MAX 96  
MIN 52  
AVG 75  
PROGRAM FINISHED, DO YOU WANT TO RUN THIS PROGRAM AGAIN? Y/N

☒ Newline as 0x0A  
☐ Newline as 0x0D  
☐ Binary (leave newlines unchanged)

Input/Output #2:

LC3 Tutor

Memory

Q

Jump to address or label

Manage Labels

	0x	Label	Hex	Instruction
<div></div>	xFD75		xA22F	LDI R1, xFDA5
<div></div>	xFD76		x202F	LD R0, xFDA6
<div></div>	xFD77		x5040	AND R0, R1, R0
<div></div>	xFD78		xB02C	STI R0, xFDA5
<div></div>	xFD79		x2003	LD R0, xFD7D
<div></div>	xFD7A		x2203	LD R1, xFD7E
<div></div>	xFD7B		x2E03	LD R7, xFD7F
<div></div>	xFD7C		xC1C0	RET
<div></div>	xFD7D		x006E	NOP
<div></div>	xFD7E		xFFFF5	.FILL xFFF5
<div></div>	xFD7F		x30C1	ST R0, xFE41
<div></div>	xFD80		x000A	NOP
<div></div>	xFD81		x002D	NOP
<div></div>	xFD82		x002D	NOP
<div></div>	xFD83		x002D	NOP
<div></div>	xFD84		x002D	NOP

Jump to PC

Assemble

Raw

Status

Registers

R0: x7FFF  
R4: x0000  
PC: xFD79

R1: xFFFF  
R5: x0030  
IR: xB02C

R2: x3000  
R6: x0000  
PSR: x8001

R3: x0015  
R7: xFD75  
CC: P

Clear R0-R7

Reset all registers

Step

Next

Finish

Run

Pause

Continue

Unhalt

☒ Follow PC

Console

Enter 5 scores: (0 - 99)  
50 F  
60 D  
70 C  
80 B  
90 A  
MAX 90  
MIN 50  
AVG 70  
PROGRAM FINISHED, DO YOU WANT TO RUN THIS PROGRAM AGAIN? Y/N  
  
----- Halting the processor -----

Clear Input Buffer (0 characters)

Clear Output

☒ Newline as 0x0A

☐ Newline as 0x0D

☐ Binary (leave newlines unchanged)