

Computation Structures 2: Computer Architecture

<u>Help</u>

selfpoised ~

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☆ Course / 10. Assembly Language, Models of Computation / Lecture Videos (40:10)



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Image: A contract of the contract of the

LE10.1

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LE10.1.1: Branch Offset

1.0/1.0 point (ungraded)

1. A BR instruction at location 0×1000 branches to 0×2000. If the literal field of that instruction is incremented by 0×10, where will the modified instruction transfer to?

Branch target for modified BR (HEX): 0x 2040

2. A BR instruction at location 0×1000 branches to 0×2000. If the binary representation for that BR were moved to location 0×1400 and executed there, where will the relocated instruction branch to?

Branch target for relocated BR (in hex): 0x 2400 ✓

Submit

LE10.1.2: Beta Assembly

1.0/1.0 point (ungraded)

A line in an assembly-language program containing "ADDC(R1,2,R3)" is changed to "ADDC(R1,R2,R3)". Will the modified program behave differently when executed?

Yes		
No		
Can't Tell		
✓		

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LE10.1.3: Symbol Table

1.0/1.0 point (ungraded)

When the assembler processes the program shown below, it builds a symbol table that gives the value of each symbol. Assume that the LD instruction is in location 0 of main memory.

```
LD(R31,N,R0)

if: BNE(R0,else,R31)

then: SUBC(R0,1,R0)

BEQ(R31,end,R31)

else: ADDC(R0,1,R0)

end: ST(R0,M,R31)

N: LONG(10)

M: LONG(0)
```

Please give the values found in the symbol table after the assembler has finished assembling the program. Enter your answers as a sequence of hex digits.

Value for symbol "if": 0x 4		~	
Value for symbol "then": 0x	8	•	/
Value for symbol "else": 0x	10	7,	

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