



Help

LC-3 CONTROL INSTRUCTIONS



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1. CHECK YOUR UNDERSTANDING (1/1 point)

Which of the following is **NOT** a true statement regarding the LC-3 code for the conditional and iterative constructs?

- ☐ Both branches for the conditional construct have a positive branch offset.
- ☒ Both branches for the iterative construct have a negative offset. ✓
- ☐ For the conditional construct, the second branch causes the first instruction in the next subtask to be executed.
- ☐ For the iterative construct, the second branch causes the first instruction in the loop to be executed.

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EXPLANATION

The first statement is true. The first branch when taken causes subtask 1 to be skipped, while the second causes subtask 2 to be skipped. Both offsets are positive.

The second statement is false. The first branch when taken causes the subtask to be skipped, and therefore has a positive offset.

The third and fourth statements are true. For a conditional, the second branch follows subtask 1 and causes subtask 2 to be skipped. For iterative, the second branch is at the end of the loop and causes the program to jump back to the top of the loop.

Final Check

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