edX **CornellX: ENGRI1210x The Computing Technology Inside Your Smartphone** Karen West ▼

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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.

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