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Please refer to Appendix A, Figure A.2 of <u>Introduction to Computer Systems</u> for a list of LC-3 instructions. If the link doesn't work please copy and paste the following URL http://highered.mheducation.com/sites/0072467509/student_view0/appendices_a_b_c_d___e.html

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1.0x

1. CHECK YOUR UNDERSTANDING (1/1 point)

Which of the following best describes the operation of the following instruction sequence?

0001000000100001 01101110000000000

0000101111111101

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The Full LC-3 Instruction Set ISA 2 ENGRI1210x Cou Repeatedly add a list of values until the result is 0.	https://courses.edx.org/courses/CornellX/ENGRI1210x/1
Repeatedly add a list of values until the result is not 0.	
Check a list of numbers for the first occurrence of the	value 0.
Check a list of numbers for the first occurrence of a no	on-zero value.
EXPLANATION	
The first instruction increments R0. The second instruction loads the contents of the memory location pointed to by R0 into R7. The third instruction checks if the value is non-zero. If so, it branches back to the first instruction. The loop repeats until the value loaded from memory is zero, at which point R0 points to the memory location that holds that value.	
third instruction checks if the value is non-zero. If so, it brai	nches back to the first instruction. The loop repeats until the value loaded
third instruction checks if the value is non-zero. If so, it brai	nches back to the first instruction. The loop repeats until the value loaded
third instruction checks if the value is non-zero. If so, it brain from memory is zero, at which point R0 points to the memory	nches back to the first instruction. The loop repeats until the value loaded



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