ECE 3223
Homework 6

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For the μP we have designed in class, the current context is given by:

Register	Contents
R0:	\$0100
R1:	\$0000
R2:	\$0000
R3:	\$0000
PSW:	0000b
SP:	\$3000
PC:	\$1000
IRL:	\$0000
IRR:	\$0000

The contents of memory are as follows:

Address	Contents
\$1000	\$1A00
\$1001	\$1007
\$1002	\$0A40
\$1003	\$0020
\$1004	\$0A00
\$1005	\$1008
\$1006	\$4800
\$1007	\$FA01
\$1008	\$0AC0
\$1009	\$1000
\$100A	\$2C83
\$100B	\$0EC0
\$100C	\$1007
\$100D	\$244A
\$100E	\$240B

Suppose that the μP begins execution with a fetch cycle. What value is held in R0 after nine instructions have been executed?