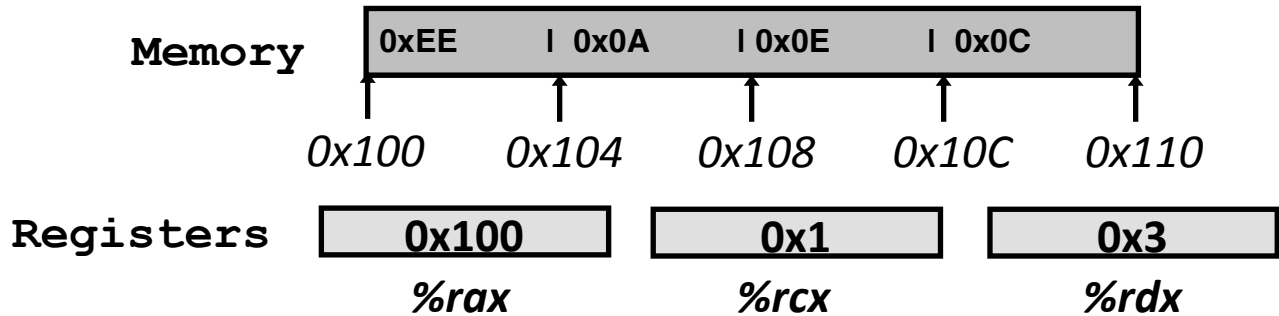# CSCI 2330 – x86-64 Movement and Addressing Exercises (2)

1. Assuming the following memory contents and register values, compute the results of the following MOV instructions and fill in the contents of memory at the end of the process. <u>In the large table, only fill in values that change.</u>

Memory

0xEE	l 0x0A	l 0x0E	l 0x0C

0x100   0x104   0x108   0x10C   0x110

Registers

0x100	0x1	0x3
%rax	*%rcx*	*%rdx*

Operation	%rax	%rcx	%rdx	0x100	0x104	0x108	0x10C
mov $0x0F, %rcx							
mov %rcx, (%rax)							
mov (%rax,%rdx,4),%rcx							
mov $0x108, %rdx							
mov (%rdx), %rax							
mov %rcx, (%rdx)							
mov %rax, 0x10C							

Memory at the End:

0x100	0x104	0x108	0x10c