

Thursday, February 28

Name _____

6.035 Spring 2013

Miniquiz #8

5 minutes

1. What components of a program's execution model (e.g., control flow, registers, stack, heap) and behavior does a *procedure abstraction* describe?

2. Why might one choose the left snippet of x86 assembly code over the right?

<pre> movq \$0, -8(%rbp) cmpl \$2, -20(%rbp) jne .L2 movq -32(%rbp), %rax addq \$8, %rax movq %rax, -8(%rbp) jmp .L3 .L2: movq -32(%rbp), %rax addq \$16, %rax movq %rax, -8(%rbp) .L3: movq -8(%rbp), %rax</pre>	<pre> movq \$0, -8(%rbp) cmpl \$2, -20(%rbp) je .L2 movq -32(%rbp), %rax addq \$16, %rax movq %rax, -8(%rbp) jmp .L3 .L2: movq -32(%rbp), %rax addq \$8, %rax movq %rax, -8(%rbp) .L3: movq -8(%rbp), %rax</pre>
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