## Y86 Introduction

- Topics
  - Putting it all together in a program
- Learning Objectives
  - Use the simulator to execute y86 programs

Much of this material is derived from that of Bryant and O'Halloran.

## Example Program (1)

## Example Program (2)

```
# Load data from memory
1. irmovq a, %r11
2. mrmovq 0(%r11), %rax
3. mrmovq 8(%r11), %rbx
# Write values back to
# opposite locations
4. rmmovq %rax, 8(%r11)
5. rmmovq %rbx, 0(%r11)
6. halt
7. .pos 0x100
8. a: .quad 0xFACE
9. b: .quad 0xCAFE
```

CPSC 313 3