

CpSc 370 Homework 2
Spring, 2016; Dr. Conlon

Hand assemble Y86 code from Figure 4.6, p. 346 (also below). Include the following columns in your assembly: address, hex instruction, symbolic address, assembly opcode, assembly operands.
Assume assembly starts at address zero.

Due Friday, March 4.

```
;int Sum(int *Start, int Count)
sum      pushl   %ebp
          rrmovl  %esp,%ebp
          mrmovl  8(%ebp),%ecx      ;ecx = Start
          mrmovl  12(%ebp),%edx     ;edx = Count
          xorl   %eax,%eax         ;sum = 0
          andl   %edx,%edx
          je     End
Loop     mrmovl  (%ecx),%esi        ;get *Start
          addl   %esi,%eax          ;add to sum
          irmovl $4,%ebx
          addl   %ebx,%ecx         ;Start++
          irmovl $-1,%ebx
          addl   %ebx,%edx         ;Count--
          jne   Loop
End      rrmovl  %ebp,%esp
          popl   %ebp
          ret
```