

**CS 240**  
**Laboratory 9 Assignment**  
**Stacks**

The lecture notes on x86 and stacks should help you with this assignment.

We will be examining the following **mystery** function in lab on Wednesday. Analyze the function. Write comment to explain single lines or blocks of code, and then write a description of what you think the function does. Hand in hardcopy before lab.

Dump of assembler code for function **mystery**:

	<u>Comments</u>
0x80483F4 <+0>:    push %ebp	
0x80483F5 <+1>:    mov %esp, %ebp	
0x80483F7 <+3>:    sub \$0x18, %esp	
0x80483FA <+6>:    cmpl \$0x0,0x8(%ebp)	
0x80483FE <+10>:   jne 0x8048407 <mystery +19>	
0x8048400 <+12>:   mov \$0x1, %eax	
0x8048405 <+17>:   jmp 0x8048419 <mystery + 37>	
0x8048407<+19>:   mov 0x8(%ebp),%eax	
0x804840A <+22>:   sub \$0x1,%eax	
0x804840D <+25>:   mov %eax, (%esp)	
0x8048410 <+28>:   call 0x80483F4 <mystery>	
0x8048415<+33>:   imul 0x8(%ebp),%eax	
0x8048419 <+37>:   leave	
0x804841A <+38>:   ret	

End of assembler dump.

**Description of function:**