**CSC 406: Systems I**

**Homework 4**

**Due by 11:59 pm on Friday, November 4**

Please write precise and concise answers.

**Reading**

Read sections 3.1-3.10  of BO\* as well as lecture notes 5, 6, 7.  
  
BO\* = Computer Systems by Bryant and O'Hallaron  
  
***Make sure that you work out every practice problem in \*BO!  Peek at the solutions (presented at the end of the chapter) if you have to.***

**Assignment**

Unzip file hw4.zip

$ tar -xvf /home/sparsa2/public/hw4.zip

and move to newly created directory hw4:

$ cd hw4

This directory contains files hw4.c and Makefile. Open file hw4.c for editing and do the homework:

$ emacs hw4.c

When done, submit the homework as follows:

$ make submit

1.   Solve Problem 3.62 in BO. Write down the complete code for the switch statement into the hw4.c file.  Verify your solution by compiling it into an object file on our class Linux VM

$ gcc -Og -c hw4.c

and then viewing the generated assembly code using a disassembler:

$ objdump -d hw4.o | less

2. Solve problem 3.65 of the book. Write down your answers together with a concise  
reasoning as a comment in the hw4.c file.

3. Continue working on the bomb lab.