CS5250 Advanced Operating Systems

Pop Quiz 5

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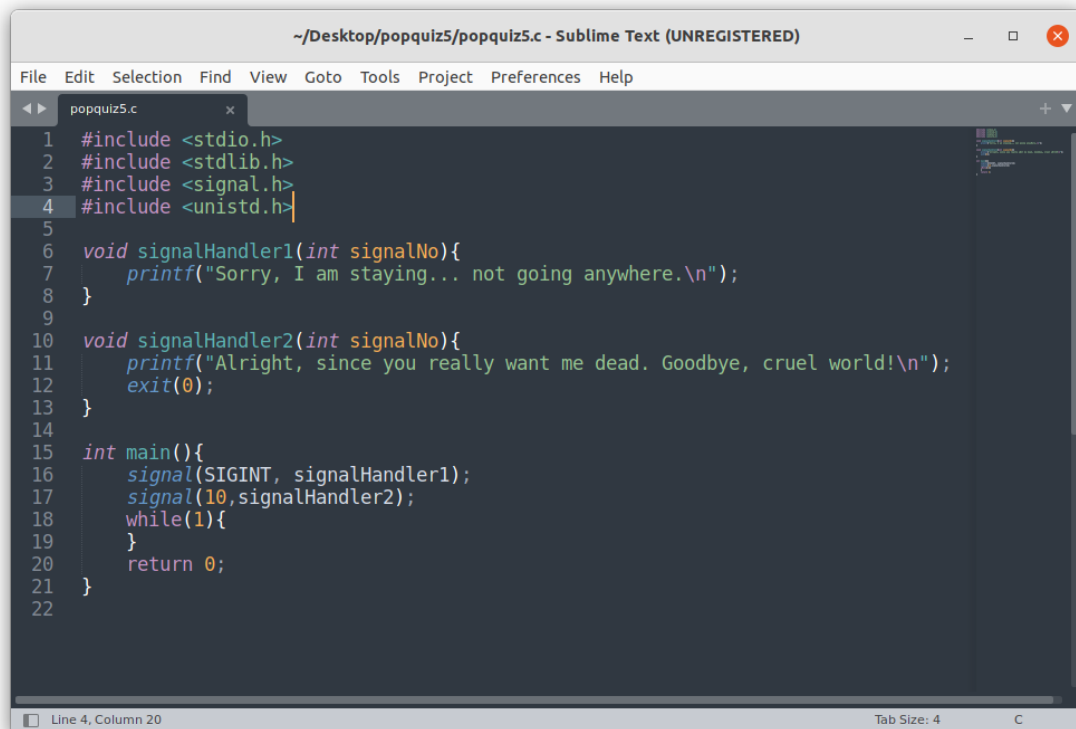This is a small programming exercise on Linux signals.

Write a simple C program that satisfy the following specifications:

1. The main body performs an infinite loop.
2. Using the signal mechanism, when it receives a CTRL-C from the keyboard, the program will merely print out "Sorry, I'm staying… not going anywhere." and continues with the infinite loop.
3. When it receives the signal 10, it will print out "Alright, since you really want me dead. Goodbye, cruel world!" and exits.

Show (by screen capture) how you it behaves. Hint: you may need two windows so that you can send the termination signal to the infinite loop program.

Submit your answer in a PDF into the corresponding Luminus submission folder.

- C program code

● Run the program in a terminal and input CTRL-C from keyboard

When the program receives signal CTRL-C, it will print out "Sorry, I'm staying… not going anywhere."

It also continues with the infinite loop.

● Open another terminal, by Linux command, we know the PID of previous terminal is 5302
By using command kill -s 10 5302, send signal 10 to the process 5302

it will print out "Alright, since you really want me dead. Goodbye, cruel world!" and exits.