COMP2001/COMP2401

Introduction to System Programming

Summer 2012, Assignment 1

Deadline : May 17, 2012, at 12:00 (noon), submitted via WebCT

Objectives:

This assignment will introduce you to get familiar with Linux commands, and a simple programming in C under Unix. You **MUST** submit your solutions through WebCT in accordance with the rules specified in the course outline. Answers to all questions should be organized neatly into a single easy-to-follow report document. Include a readme.txt file in your WebCT submission, if there are any special instructions for the TA. Your submission format could be: Microsoft Word (.doc) or PDF for the first part. For the rest part, you should submit the source code and any other files required to compile and run your program. **[Total 10 marks]**

Description:

Part I [3 marks]: UNIX commands

State a Linux command which can be used for the following tasks

- obtain help about a Linux command:
- change file permissions:
- list the files in a directory:
- make a directory:
- copy a file:
- find current working directory

Part II [7 marks]: C programming

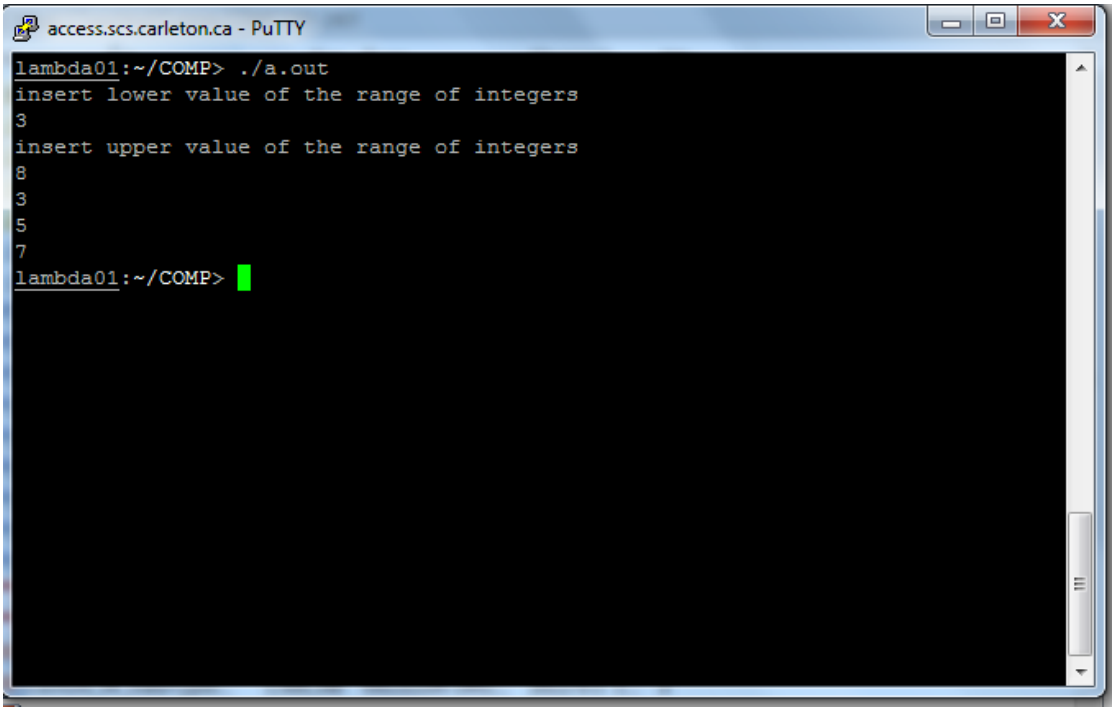
Write a program in C for sorting out odd integers in between the given range of the integers by using the **continue** statement. It first gets the inputs and then displays the relevant outputs to the console as follow. (The TA should be able to compile and run your program under Unix)

Requirement:

Your WebCT submission must include one code file and one file readme.txt stating how to compile your program.

Style marks will be given in full only if:

• the code is legible with sufficient comments, proper indentation and intuitive variable names
• the input and output on the screen are well formatted



Marking scheme:

1. **Submission**
   - You must follow all the instructions **exactly**, or you will lose marks
2. **Deductions**
   - 1 marks if the assignment is marked **Late** in WebCT (submitted between 12:00 noon and 12:30 PM)
   - 10 marks if the assignment is marked **Missed** in WebCT (submitted after 12:30 PM)
   - 2 marks if the code does not compile, if any submitted files are missing or corrupt or in the wrong format, or if the program consistently crashes
   - 0.5 marks for missing comments or other bad style (non-standard indentation, improper funct/var names, etc)
3. **Bonus Marks**
   - Up to 2 extra marks are available for fun and creative additional features, such as error checking for input values