LAB ASSIGNMENT # 1 (Algorithms & Operating Systems)
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Deadline: October 07, 2013 (23:59 PM)

[Socket programming: IPC]

Write a client-server program for doing the following task:

Client: Sends a list of 'n' randomly generated integers with options:
        either ascending or descending order, and
        which one of the sorting algorithms to be used in a request
        message, say REQ.

Server: Sends the list of sorted integers after receiving that list
        of integers in REQ message.
        Server side must be implemented with bubble sort, merge sort,
        selection sort, heap sort, insertion sort programs.

Client: Flushes the sorted integer list after receiving the message in
        the acknowledgement message, saky ACK.

Instructions for compiling and executing:

Step 1: Create a Client directory. Write your client program
        say, client_rollno.c
        Compile using the command:
        > cc -lm client_rollno.c

Step 2: Create a Server directory. Write your server program
        say, server_rollno.c
        Compile using the command:
        > cc -lm server_rollno.c

Step 3: Start the server process first. Use the following command:
       > ./a.out

Step 4: Start the client process then. Use the following command:
       > ./a.out 127.0.0.1
         (for local loop-back testing)

Submit your only C program files: client_rollno.c and server_rollno.c
in a ZIP file online in the course portal on or before October 07, 2013 (23:59 PM).
No extension date of lab assignment will be allowed.
