BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE PILANI, K. K. BIRLA GOA CAMPUS

I SEMESTER 2016-2017

Advanced Operating Systems (CS G623)

Assignment 1

Due date 21/08/2016 (4:00 P.M)

Instructions:

(1) This is an **individual** assignment. Please see section 4b of handout for Malpractice regulations.

(2) The programming assignments will be graded according to the following criteria

- Completeness; does your program implement the whole assignment?
- Correctness; does your program provide the right output?
- Efficiency; have you chosen appropriate algorithms and data structures for the problem?
- Programming style (including documentation and program organization); is the program well designed and easy to understand?
- Viva conducted by me.

DO NOT FORGET to include a README file (text only) in your tar.gz file with the following contents.

General README instructions

In the directory you turn in (please upload the assignment as a tar.gz file), you must have a text-only file called README, in which you will cover AT LEAST the following:

1. Your name. If you interacted significantly with others indicate this as well.
2. A list of all files in the directory and a short description of each.
3. HOW TO COMPILE your program.
4. HOW TO USE (execute) your program.
5. A description of the structure of your program.
6. In case you have not completed the assignment, you should mention in significant detail:
   - What you have and have not done
   - Why you did not manage to complete your assignment (greatest difficulties)

   This will allow us to give you partial credit for the things you have completed.
7. Document any bugs of your program that you know of. Run-time errors will cost you fewer points if you document them and you show that you know their cause. Also describe what you would have done to correct them, if you had more time to work on your project.

QUESTION

(A) Recompile the Linux kernel without any modification

You are not allowed to use Virtual machine for this

(B) Write a wrapper readInput which takes N strings as input and returns a reverse concatenated string.

(C) Write a new system call which does some useful task. You are allowed to choose the purpose

Make sure you are using ADT with make file