

Course COMP-8567

Instructor Dr. B. Boufama and Dr. Ranga

Assignment 04, Due date April 01, 11.59pm

Write a C program, call it `miniBash`, that goes in an infinite loop waiting for user's commands. Once a line is entered, your program should assemble and execute each command, using `fork()`, `exec()`, etc. When piping is present, it should be handled. Note that your `miniBash` should also recognize special characters like `&` (for background execution), `>` (for redirection), etc.

Examples of input lines entered by the user :

- `miniBash> ps -e ; date | wc -w`
- `miniBash> cat f.txt | grep -v day | wc -c`
- `miniBash> ps -ef; date ; echo bigFoot`
- `miniBash> myProgram & # background mode`

In particular, you should only use Unix I/O system calls.