

HW 7: Pipe

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Assigned: November 18, 2018

Due: 11:59pm November 25, 2018

The goal of this assignment is to extend “**pipe.c**” so that it handles multiple pipes. The extended program should work as the following sequence of multiple commands with the “|” operator.

\$ ls | sort | head | less

```
seokin@compasslab1:/home$ ls | sort | head | less
f18elec462_shared
s1234567
s2008038063
s2013105034
s2013105061
s2014105033
s2014105040
s2014105042
s2014105065
s2014105106
```

[Run]

\$./hw7_2014123123 cmd1 cmd2 cmd3 NULL

→ the output (stdout) of the “cmd1” command is piped to the input (stdin) of the “cmd2” command and the output (stdout) of the “cmd2” command is piped to the input (stdin) of the “cmd3” command, and so on. The command line should be ended with the “NULL”.

[We will test your program with the following sequence]

```
$ gcc -o hw7_2014123123 hw7_2014123123.c
```

```
$ ./hw7_2014123123 ls sort head less NULL
```

Late Day Policy

All homeworks are due at 11:59pm on the due date. A grading penalty will be applied to late assignments. Any assignment turned in late will be penalized 25% per late day.

Plagiarism

No plagiarism will be tolerated. If the assignment is to be worked on your own, please respect it. If the instructor determines that there are substantial similarities exceeding the likelihood of such an event, he will call the two (or more) students to explain them and possibly to take an immediate test (or assignment, at the discretion of the instructor) to determine the student's abilities related to the offending work.