

CS 279 - Week 11 Lab Exercise - 10-31-12

Deadline

Due by the end of lab on 10-31-12.

How to submit

Submit your files for this lab using `~st10/279submit` on nrs-labs, with a homework number of 91

Purpose

Practice with re-running previous commands from one's history and practicing with `sed`

Important notes

- You are expected to work in **pairs** for this lab; this means **two** students at **one** computer and **one** keyboard, one typing, and the other suggesting what to type. Both are expected to be engaged and involved in what is going on, and **each** file that you create should have **both** of your names in it.

Students who do not work in pairs may not receive credit for the lab exercise (although if an odd number of students requires it, there may be one authorized trio -- the same guidelines apply).

- If you have a question during lab, and I am helping another pair, add one or both of your names to the "Next:" list on the board, and I will get to you as soon as I can.
- Your answers may be posted to the course Moodle site.

Problems

Problem 1

In a file `lab11-1.txt`:

- put your names
- put your answers for each of the following

1 part a

What can you type, at any point, to simply re-execute the previous command?

1 part b

What can you type to redo the command with number 568 in the command history?

1 part c

What command can you type to just see the last 7 lines of the command history?

1 part d

What can you type to redo the most recent command starting with `grep`?

1 part e

What can you type to redo the most recent command including `grep` anywhere within it?

1 part f

What can you type to enable you to then start typing a previous command, and the shell will attempt to search through the history and complete it?

1 part g

What can you type to redo the command 6 commands ago?

1 part h

What can you type to redo the immediately preceding command except replacing the first instance of `297` in that command with `279`?

1 part i

What can you type to redo the immediately preceding command except replacing all instances of `297` in that command with `279`?

Submit your resulting `lab11-1.txt`

Problem 2

In a file `lab11-2.txt`:

- put your names
- put your answers for each of the following

2 part a

Write a `sed` command whose output will be the contents of `play.txt` except with the first instance of `moo` on each line replaced by `MOO`

2 part b

Write a `sed` command whose output will be the contents of `play.txt` except with `'MOO> '` added

to the beginning of each line.

2 part c

Write a `sed` command whose output will be the contents of `play.txt` except with `/**/` added to the end of lines containing a `grep` command.

2 part d

Write a `sed` command whose output will be just the non-blank lines of file `play.txt`.

2 part e

Write a `sed` command whose output will be everything except lines 8-22 of file `play.txt`.

2 part f

Write a single `sed` command whose output will be the contents of `play.txt` except with the first instance of `red` on each line replaced by `RED!` and all instances of `black` replaced by `DARKNESS`

Submit your resulting `lab11-2.txt`