Lab 4: Shell Scripting

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Introduction

In this lab, you'll get to use **grep** and **sed** to run some regular expressions you've written. Writing good regular expressions is like solving a puzzle!

You should make an answers text file to answer assignment questions.

Problem 1: That filter problem, AGAIN

So it turns out that all that C++ could be done with grep instead!

- 1. Write a command to filter out lines beginning with '#'. (You can test it with story-plain.txt.)
- 2. Modify the previous command to filter out lines beginning with whitespace and then '#' as well. (You can test it with story-space.txt.)

Problem 2: Lk m, n vwls!

Write a sed command to remove the vowels from a file.

Problem 3: Counting Lines

Your friend happens to run a service that generates random numbers. Each user request is recorded in a log file with the following format:

<YYY-MM-DD> <HH:MM:SS> <number>

Your friend wants to know how many requests in numbers.log were made in January. (Hint: wc -1 will count the number of lines in files or STDIN.)

Problem 4: Phone numbers

phonebook.txt contains phone numbers (surprise, surprise). But, those numbers are not written in a consistent format; I just put them in however I felt like at the time. It'd be nice to have those formatted in a consistent manner.

- 1. Write a grep command to match all the phone numbers in the file.
- Write a sed command to format all the numbers like so: (ddd) ddd-dddd. (Hint: backreferences are your friend!)
 (Hint 2: Sadly, sed doesn't have \d , so you'll have to use [0-9] instead.)