

CSE2031

Lab 9 Winter 2016

In this lab, you will practice some shell scripting and text manipulation. First, review the UNIX commands `tr`, `sort`, `uniq`, `cut`, these will be very helpful in this lab. This lab is due the last day of classes.

The labs are submitted as `submit 2031` directory file
The name of the directory and files are the same.
The name of every submission is given in red after the script description

Problem 1

A file will be emailed to you, this file consists of several fields separated by ":" the fields are

Name: first name followed by last name with an optional middle initial, for example it could be "John Dow" or "John P Dow"

Phone number: on the form 123-456-7890

Address: number street, city, state, zip code)yes, it is American addresses, that is the file I have).

D.o.B.: on the form mm/dd/yy

Key: An integer 12345

Write a sed script to do the following, each script is labeled with the file name to submit in bold.

1. Write a sed script to change the name Jon to Jonathan **L9A**
2. Write a sed script to display all record with the state is Pennsylvania "PA"

L9B

3. Write a sed script to replace the line containng Karen Evich with a line saying **L9C**

*** karen has retired***

4. Write a sed script to display all the phone numbers, only phone numbers one per line **L9D**

5. Write a sed script to add a line before the first line stating **L9E**

Beginning of DB

1. Write a sed script to insert after every record with an address in NJ saying
6. **This Guy is from New jersey*** **L9F**

Problem 2

A student file with the following fields (separated by a ":")
last name, first name and initial if any, student ID, midterm (out of 50) lab marks
(out of 80), quizzes (out of 30) and final (out of 80).

The mark distribution for this class is as follows

- 25% for midterm
- 15% for quizzes
- 15% for labs
- 45% for final

Write an awk script to do the following

7. Display student final marks as: student ID and total mark/100 **L9G**
8. Display Student ID and final mark for those with 85% or more final mark
L9H
9. Display the the student final mark as follows **L9I**
Student ID mark, if the mark is less than 50% it display ****Failed**** on
the same line
10. Display the average mark of the class **L9K**