

CIS45 - Midterm Practical Exam

Make a directory under /tmp/midterm that has your initials and ends with -practical.

For example. My would be hc. `$ mkdir /tmp/midterm/hc-practical`

At the end of the lab, you will copy your information to this directory.

Put all answers in this file and copy it to the /tmp/midterm/<your initials>-practical directory.

1. A regular text file exist somewhere on your system. Find the name of the file that has name and Social Security Numbers that look like this:

john 343-45-1048

pete 543-45-1048

a. Show the command to do this.

```
$ grep -rl "john 343-45-1048\|pete 543-45-1048" / 2> /dev/null
```

b. What is the name of the file? _____

/etc/profile.d/ssn_file

2. Write a command to swap the phone number with the social security number so that output looks like this:

343-45-1048 john

543-45-1048 peter

b. Write an expression to remove the dashes '-' from the SSN numbers above.

```
$ sed 's/-//g' /etc/profile.d/ssn_file
```

3. A file exist on the system where the inode number matches the first five numbers of one of the SSN in the file. Find the file with that inode number.

```
$grep '([0-9]{5})' /etc/profile.d/ssn_file -exec find -inode {} \;
```

4. In your midterm/<yourname> directory, create a directory called lab-output that has read , write and execute for everyone plus the sticky bit set.

```
$ chmod 1777 lab-output
```

6. Copy all files from the /etc directory that begins with the letter 'p' into your lab-output directory.

```
$ cp /etc/p* /tmp/midterm/ajc-practical/lab-output
```

7. Put all files in the lab-output directory into a tar ball called etcfiles.tar and then compress it using the gzip or bzip2 utility.

```
$ tar czf etcfiles.tar lab-output
```

8. Copy the compress tar file called to the /home/hcampbell/students-lab