# Lab 7

```
sgilmore@cis106:~$ cat
gilmore@cis106:~$
sgilmore@cis106:~$
sgilmore@cis106:
```

```
sgilmore@cis106:~$ cut -d ':' -f1 /etc/passwd
Try 'cut --help' for more information.
sgilmore@cis106:~$ cut -d ':' -f1,7 /etc/passwd
sgilmore@cis106:~$ cut -d ":" -f1,7 --output-delimiter=" = " /etc/passwd
sgilmore@cis106:~$
                                   complement -s -f3 /etc/passwd
```

#### Question 3

```
sgilmore@cis106:~$ curl -s https://cis106.com/assets/shopping.txt -o shopping.it
sgilmore@cis106:~$ curl -s https://cis106.com/assets/tasks.txt -o tasks.txt
sgilmore@cis106:~$ paste shopping.txt tasks.txt
Eggs Do laundry
Milk Play Bingo
Juice Go to Work
Carrots Go to School
Potatoes Pay Bills
sgilmore@cis106:~$ wc -l ~/Documents/Books/dracula.txt
15860 /home/sgilmore/Documents/Books/dracula.txt
sgilmore@cis106:~$ wc -w ~/Documents/Books/pride-and-prejudice.txt
130406 /home/sgilmore/Documents/Books/pride-and-prejudice.txt
sgilmore@cis106:~$ sort /etc/passwd
apt:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,;:/var/lib/avahi-autoipd:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,;:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,;:/var/lib/colord:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
```

```
sgilmore@cis106:~/Documents/Csv$ cat cereal.csv | tr ';' ','
name,mfr,type,calories,protein,fat,sodium,fiber,carbo,sugars,potass,vitamins,she
lf,weight,cups,rating
String,Categorical,Categorical,Int,Int,Int,Int,Float,Float,Int,Int,Int,Int,Int,Float
,Float,Float
100% Bran,N,C,70,4,1,130,10,5,6,280,25,3,1,0.33,68.402973
100% Natural Bran,Q,C,120,3,5,15,2,8,8,135,0,3,1,1,33.983679
All-Bran,K,C,70,4,1,260,9,7,5,320,25,3,1,0.33,59.425505

sgilmore@cis106:~/Documents/Books$ grep -i 'love' pride-and-prejudice.txt
by allowance" and "loving with personal love." This distinction applies
to their best work than in the case of those others who are loved "by
proper thing to love them. And in the sect--fairly large and yet
All the minor passages--the loves of Jane and Bingley, the advent of Mr.
aversion to actual love. I do not know whether the all-grasping hand of
his falling in love at all is not extremely probable. Here again I
injured in disposition, and thoroughly in love. As for his being in
love, Elizabeth has given as just an exposition of the causes of that
anybody who can read between lines will not find the lovers'
ladies with whom it might be a pleasure to fall in love; there are at
```

```
sgilmore@cis106:~/Documents/Book
gilmore@cis106:~/Documents/Books$
```

```
sgilmore@cis106:~$ awk -F ';' '{print $1, $NF}' ~/Documents/Csv/cars.csv
Car Origin
STRING CAT
Chevrolet Chevelle Malibu US
Buick Skylark 320 US
Plymouth Satellite US
AMC Rebel SST US
Ford Torino US
```

```
sgilmore@cis106:~/Documents/Csv$ awk -F ';' '{print $1, " made in ", $NF}' cars
csv
Car made in Origin
STRING made in CAT
Chevrolet Chevelle Malibu made in US
Buick Skylark 320 made in US
Plymouth Satellite made in US
```

```
gilmore@cis106:~/Documents/Csv$
sgilmore@cis106:~/Documents/Csv
sgilmore@cis106:~/Documents/Csv$ awk -F';' '{print toupper($1)}'
sgilmore@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/g' dracula.txt | gr
```

```
sgilmore@cis106:~$ sed G /etc/passwd
root:x:0:0:root:/root:/bin/bash

daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin

Most people start at our website which has the main PG search

facility: www.gutenberg.org

This website includes information about Project Gutenberg-tm,
 including how to make donations to the Project Gutenberg Literary

Archive Foundation, how to help produce our new eBooks, and how to
 subscribe to our email newsletter to hear about new eBooks.

sgilmore@cis106:~$ sed '/^$/d;G' ~/Documents/Books/pride-and-prejudice.txt
```

#### Question 6

```
sgilmore@cis106:~$ grep "/bin/bash" /etc/passwd
root:x:0:0:root:/root:/bin/bash
sgilmore:x:1000:1000:sgilmore,,,:/home/sgilmore:/bin/bash
sgilmore@cis106:~$ grep "/bin/bash" /etc/passwd | wc -l
2
sgilmore@cis106:~$ grep "/sbin/nologin" /etc/passwd | wc -l
40
sgilmore@cis106:~$ grep -i 'ford' ~/Documents/Csv/cars.csv | wc -l
53
sgilmore@cis106:~$ grep -Ewo '....' ~/Documents/Books/bible.txt | wc -l
263746
```

#### Challenge Question