Lab 7

```
ojsevillano@cis106vm:~$ cat /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
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:115::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,;/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,;:/run/speech-dispatcher:/bin/false
nm-openvpn:x:120:126:NetworkManager OpenVPN,,;:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
adm:x:127:133:Gnome Displav Manager:/var/lib/adm3:/bin/false
    🔁 ojsevillano@cis106v..
ojsevillano@cis106vm:~$ tac /etc/passwd
sshd:x:130:65534::/run/sshd:/usr/sbin/nologin
fwupd-refresh:x:129:138:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
_flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
```

```
cysevillano@cis106vm: $ tac /etc/passwd
sshd:x:130:65534::/run/sshd:/usr/sbin/nologin
flatpak:x:130:65534::/run/sshd:/usr/sbin/nologin
flatpak:x:128:137:Flatpak system-wide installation helper,,;:/nonexistent:/usr/sbin/nologin
vboxadd:x:128:137:Flatpak system-wide installation helper,,;:/nonexistent:/usr/sbin/nologin
vboxadd:x:128:137:Flatpak system-wide installation helper,,;:/nonexistent:/usr/sbin/nologin
vboxadd:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
hpltp:x:126:7:HPLIP system user,,;:/run/nplip:/bin/false
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup):/bin/false
pulse:x:124:131:PulseAudio daemon,,;:/run/pulse:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,;:/var/lib/colord:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
nn-openvpn:x:120:126:NetworkManager OpenVPN,,;:/var/lib/genvpn/chroot:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,;:/run/speech-dispatcher:/bin/false
sssd:x:118:125:SSSD system user,,;:/var/lib/sss:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
rtkt:x:16:123:RealtimeKtt,,;:/proc:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,;:/home/cups-pk-helper:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,;:/un/avahi-daemon:/usr/sbin/nologin
dnsmasq:x:112:65534:Kernel Oops Tracking Daemon,,;:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/minc:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/sbmux:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
uuidd:x:107:115::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
mystemd-timesync:x:103:106:systemd Time Synchronization,,:/run/systemd:/usr/sbin/nologin
mystemd-timesync:x:102:108::yoshin/nologin
systemd-resolve:x
```

```
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
<u>aames:x:5:60:aames:/usr/aames:/usr/sbin/noloain</u>
ojsevillano@cis106vm:~$ cat -En /etc/passwd
      1 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$
         sync:x:4:65534:sync:/bin:/bin/sync$
games:x:5:60:games:/usr/games:/usr/sbin/nologin$
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
         lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
         mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
     10
          news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
         uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
     11
     12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
     13
         www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
         backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
     15
         irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
          gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin$
     17
     18
          systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$
ojsevillano@cis106vm:~$ head -5 /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
sync:x:4:65534:sync:/bin:/bin/sync
ojsevillano@cis106vm:~$ tail -5 /etc/passwd
```

_flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin

ojsevillano:x:1000:1000:Oswaldo ,,,:/home/ojsevillano:/bin/bash vboxadd:x:999:1::/var/run/vboxadd:/bin/false

sshd:x:130:65534::/run/sshd:/usr/sbin/nologin

fwupd-refresh:x:129:138:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin

Question 2

ojsevillano@cis106vm:~\$

```
ojsevillano@cis106vm:~$ cut -d ':' -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
ргоху
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
apt
tss
uuidd
systemd-oom
tcpdump
avahi-autoipd
usbmux
dnsmasq
kernoops
avahi
cups-pk-helper
rtkit
whoopsie
sssd
speech-dispatcher
nm-openvpn
saned
colord
geoclue
pulse
gnome-initial-setup
hplip
ojsevillano@cis106vm:~$ cut -d ':' -f1,7 /etc/passwd
```

```
ojsevillano@cis106vm:~$ cut -d ':' -f1,7 /etc/passwd
root:/bin/bash
daemon:/usr/sbin/nologin
bin:/usr/sbin/nologin
sys:/usr/sbin/nologin
sync:/bin/sync
games:/usr/sbin/nologin
man:/usr/sbin/nologin
lp:/usr/sbin/nologin
mail:/usr/sbin/nologin
```

news:/usr/sbin/nologin uucp:/usr/sbin/nologin proxy:/usr/sbin/nologin www-data:/usr/sbin/nologin backup:/usr/sbin/nologin list:/usr/sbin/nologin irc:/usr/sbin/nologin gnats:/usr/sbin/nologin nobody:/usr/sbin/nologin systemd-network:/usr/sbin/nologin systemd-resolve:/usr/sbin/nologin messagebus:/usr/sbin/nologin systemd-timesync:/usr/sbin/nologin syslog:/usr/sbin/nologin apt:/usr/sbin/nologin tss:/bin/false uuidd:/usr/sbin/nologin systemd-oom:/usr/sbin/nologin tcpdump:/usr/sbin/nologin avahi-autoipd:/usr/sbin/nologin usbmux:/usr/sbin/nologin dnsmasq:/usr/sbin/nologin kernoops:/usr/sbin/nologin avahi:/usr/sbin/nologin cups-pk-helper:/usr/sbin/nologin rtkit:/usr/sbin/nologin whoopsie:/bin/false sssd:/usr/sbin/nologin speech-dispatcher:/bin/false nm-openvpn:/usr/sbin/nologin saned:/usr/sbin/nologin colord:/usr/sbin/nologin geoclue:/usr/sbin/nologin pulse:/usr/sbin/nologin gnome-initial-setup:/bin/false

```
ojsevillano@cis106vm:~$ cut -d ":" -f1,7 --output-delimiter=" =" /etc/passwd
root =/bin/bash
daemon =/usr/sbin/nologin
bin =/usr/sbin/nologin
sys =/usr/sbin/nologin
sync =/bin/sync
games =/usr/sbin/nologin
man =/usr/sbin/nologin
lp =/usr/sbin/nologin
mail =/usr/sbin/nologin
news =/usr/sbin/nologin
uucp =/usr/sbin/nologin
proxy =/usr/sbin/nologin
www-data =/usr/sbin/nologin
backup =/usr/sbin/nologin
list =/usr/sbin/nologin
irc =/usr/sbin/nologin
gnats =/usr/sbin/nologin
nobody =/usr/sbin/nologin
systemd-network =/usr/sbin/nologin
systemd-resolve =/usr/sbin/nologin
messagebus =/usr/sbin/nologin
systemd-timesync =/usr/sbin/nologin
syslog =/usr/sbin/nologin
apt =/usr/sbin/nologin
tss =/bin/false
uuidd =/usr/sbin/nologin
systemd-oom =/usr/sbin/nologin
tcpdump =/usr/sbin/nologin
avahi-autoipd =/usr/sbin/nologin
usbmux =/usr/sbin/nologin
dnsmasq =/usr/sbin/nologin
kernoops =/usr/sbin/nologin
avahi =/usr/sbin/nologin
cups-pk-helper =/usr/sbin/nologin
rtkit =/usr/sbin/nologin
whoopsie =/bin/false
```

```
ojsevillano@cis106vm:~$ cut -d ':' -f1,2,4,5,6,7 /etc/passwd
root:x:0:root:/root:/bin/bash
daemon:x:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:bin:/bin:/usr/sbin/nologin
sys:x:3:sys:/dev:/usr/sbin/nologin
sync:x:65534:sync:/bin:/bin/sync
games:x:60:games:/usr/games:/usr/sbin/nologin
man:x:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:111::/home/syslog:/usr/sbin/nologin
 _apt:x:65534::/nonexistent:/usr/sbin/nologin
tss:x:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:115::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:124::/nonexistent:/bin/false
sssd:x:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
```

```
ojsevillano@cis106vm:~$ curl -s https://cis106.com/assets/tasks.txt -o task-to-complete
ojsevillano@cis106vm:~$ curl -s https://cis106.com/assets/shopping.txt -o shopping-list
ojsevillano@cis106vm:~$ paste shopping-list task-to-complete
Eggs
          Do laundry
Milk
          Play Bingo
Juice
          Go to Work
                    Go to School
Carrots
Potatoes
                    Pay Bills
ojsevillano@cis106vm:~$ wc -l Documents/Books/dracula.txt
15860 Documents/Books/dracula.txt
ojsevillano@cis106vm:~$ wc -w Documents/Books/pride-and-prejudice.txt
130406 Documents/Books/pride-and-prejudice.txt
ojsevillano@cis106vm:~$ 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
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
_flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
fwupd-refresh:x:129:138:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/falseirc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
ojsevillano:x:1000:1000:Oswaldo ,,,:/home/ojsevillano:/bin/bash
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher :/
```

```
ojsevillano@cis106vm:~/Documents/Csv$ cat cereal.csv | tr ';' ','
name,mfr,type,calories,protein,fat,sodium,fiber,carbo,sugars,potass,vitamins,shelf,weight,cups,rating
String,Categorical,Categorical,Int,Int,Int,Int,Int,Float,Float,Int,Int,Int,Int,Int,Int,Float,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,QC,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
All-Bran with Extra Fiber,K,C,50,4,0,140,14,8,0,330,25,3,1,0.5,93.704912
Almond Delight,R,C,110,2,2,200,1,14,8,-1,25,3,1,0.75,34.384843
Apple Cinnamon Cheerios,GC,110,2,2,180,1.5,10.5,10,70,25,1,1,0.75,29.509541
Apple Jacks,K,C,110,2,0,125,1,11,14,30,25,2,1,1,33.174094
Basic 4,G,C,130,3,2,210,2,18,8,100,25,3,1.33,0.75,37.038562
Bran Chex,R,C,90,2,1,200,4,15,6,125,25,1,1,0.67,49.120253
Bran Flakes,P,C,90,3,0,210,5,13,5,190,25,3,1,0.67,53.313813
Cap'n'Crunch,Q,C,120,1,2,220,0,12,12,35,25,2,1,0.75,18.042851
Cheerios,G,C,110,6,2,290,2,17,1,105,25,1,1,1.25,50.764999
Cinnamon Toast Crunch,G,C,120,1,3,210,0,13,9,45,25,2,1,0.75,19.823573
Clusters,G,C,110,3,2,140,2,13,7,105,25,3,1,0.5,40.400208
```

ojsevillano@cis106vm:~/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 , Elizabeth has given as just an exposition of the causes of that anybody who can read between lines will not find the lo ladies with whom it might be a pleasure to fall in love; there are at Grant. I should have been most in love with Beatrix and Argemone; I "So much love and eloquence" _may_ fall in love with one of them, and therefore you must visit him as persuade you at last. I was sure you loved your girls too well to for your sakes we would do anything. Lydia, my love, though you _are_dancing was a certain step towards falling in love; and very lively way to be very much in love; but she considered with pleasure that it very few of us who have heart enough to be really in love without in love as much as she chooses."

ojsevillano@cis106vm:~/Documents/Books\$ grep -E 'love|hate' 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 Grant. I should have been most in love with Beatrix and Argemone; I "So much love and eloquence" 156

may fall in love with one of them, and therefore you must visit him as persuade you at last. I was sure you loved your girls too well to for your sakes we would do anything. Lydia, my love, though you _are_ dancing was a certain step towards falling in love; and very lively "Come, Darcy," said he, "I must have you dance. I hate to see you way to be very much in love; but she considered with pleasure that it very few of us who have heart enough to be really in love without in love as much as she chooses."

```
ojsevillano@cis106vm:~/Documents/Books$ grep -iw '^love' dracula.txt
love her. One, two, three, all open their veins for her, besides one old
love and pride, seen you grow up. Now I want you to make your home here
love me, and he loves me, and I love you with all the moods and tenses
love her. Oh, Madam Mina, by that love, I implore you, help me. It is
love and from the good, good wishes of those other strong men.
love Mina, I know. Oh, do something to save her. It cannot have gone too
oisevillano@cis106vm:~/Documents/Books$
```

```
ojsevillano@cis106vm:~/Documents/Books$ grep -E '^[A-Z]|^[0-9]' dracula.txt
This eBook is for the use of anyone anywhere in the United States and
itle: Dracula
uthor: Bram Stoker
elease Date: October, 1995 [eBook #345]
anguage: English
haracter set encoding: UTF-8
roduced by: Chuck Greif and the Online Distributed Proofreading Team
ontents
HAPTER I. Jonathan Harker's Journal
HAPTER II. Jonathan Harker's Journal
HAPTER III. Jonathan Harker's Journal
HAPTER IV. Jonathan Harker's Journal
HAPTER V. Letters—Lucy and Mina
HAPTER VI. Mina Murray's Journal
HAPTER VII. Cutting from "The Dailygraph," 8 August
HAPTER VIII. Mina Murray's Journal
HAPTER IX. Mina Murray's Journal
HAPTER X. Mina Murray's Journal
HAPTER XI. Lucy Westenra's Diary
HAPTER XII. Dr. Seward's Diary
HAPTER XIII. Dr. Seward's Diary
HAPTER XIV. Mina Harker's Journal
HAPTER XV. Dr. Seward's Diary
HAPTER XVI. Dr. Seward's Diary
HAPTER XVII. Dr. Seward's Diary
HAPTER XVIII. Dr. Seward's Diary
HAPTER XIX. Jonathan Harker's Journal
HAPTER XX. Jonathan Harker's Journal
HAPTER XXI. Dr. Seward's Diary
HAPTER XXII. Jonathan Harker's Journal
HAPTER XXIII. Dr. Seward's Diary
HAPTER XXIV. Dr. Seward's Phonograph Diary, spoken by Van Helsing
HAPTER XXV. Dr. Seward's Diary
HAPTER XXVI. Dr. Seward's Diary
HAPTER XXVII. Mina Harker's Journal
RACULA
HADTED
```

```
ojsevillano@cis106vm:~$ awk -F ';' '{print $1, $NF}' Documents/Csv/cars.csv
Car Origin
STRING CAT
Chevrolet Chevelle Malibu US
Buick Skylark 320 US
Plymouth Satellite US
AMC Rebel SST US
Ford Torino US
Ford Galaxie 500 US
Chevrolet Impala US
Plymouth Fury iii US
Pontiac Catalina US
AMC Ambassador DPL US
Citroen DS-21 Pallas Europe
Chevrolet Chevelle Concours (sw) US
Ford Torino (sw) US
Plymouth Satellite (sw) US
AMC Rebel SST (sw) US
Dodge Challenger SE US
Plymouth 'Cuda 340 US
ojsevillano@cis106vm:~/Documents/Csv$ awk -F ';' '{OFS=" made in "} {print $1, $NF}' cars.csv
Car made in Origin
STRING made in CAT
Chevrolet Chevelle Malibu made in US
Buick Skylark 320 made in US
Plymouth Satellite made in US
AMC Rebel SST made in US
Ford Torino made in US
Ford Galaxie 500 made in US
Chevrolet Impala made in US
Plymouth Fury iii made in US
Pontiac Catalina made in US
AMC Ambassador DPL made in US
Citroen DS-21 Pallas made in Europe
ojsevillano@cis106vm:~/Documents/Csv$ awk -F ';' '{print " The ",$1, " has ",$3, " cylinders and is made
in ",$NF}' cars.csv
The Car has Cylinders cylinders and is made in Origin
    STRING has INT cylinders and is made in CAT
The Chevrolet Chevelle Malibu has 8 cylinders and is made in US
The Buick Skylark 320 has 8 cylinders and is made in US
The Plymouth Satellite has 8 cylinders and is made in US
The AMC Rebel SST has 8 cylinders and is made in US
    Ford Torino has 8 cylinders and is made in US
The
     Ford Galaxie 500 has 8 cylinders and is made in US
     Chevrolet Impala has 8 cylinders and is made in US
The
ojsevillano@cis106vm:~/Documents/Csv$ awk 'NR > 2 { print }' cars.csv
Chevrolet Chevelle Malibu; 18.0; 8; 307.0; 130.0; 3504.; 12.0; 70; US
Buick Skylark 320;15.0;8;350.0;165.0;3693.;11.5;70;US
Plymouth Satellite; 18.0; 8; 318.0; 150.0; 3436.; 11.0; 70; US
AMC Rebel SST;16.0;8;304.0;150.0;3433.;12.0;70;US
Ford Torino;17.0;8;302.0;140.0;3449.;10.5;70;US
Ford Galaxie 500;15.0;8;429.0;198.0;4341.;10.0;70;US
Chevrolet Impala;14.0;8;454.0;220.0;4354.;9.0;70;US
Plymouth Fury iii;14.0;8;440.0;215.0;4312.;8.5;70;US
Pontiac Catalina;14.0;8;455.0;225.0;4425.;10.0;70;US
```

```
ojsevillano@cis106vm:~/Documents/Csv$ awk -F ';' '{print toupper9$1)}' cars.csv
awk: line 1: extra ')'
ojsevillano@cis106vm:~/Documents/Csv$ awk -F ';' '{print toupper($1)}' cars.csv
CAR
STRING
CHEVROLET CHEVELLE MALIBU
BUICK SKYLARK 320
PLYMOUTH SATELLITE
AMC REBEL SST
FORD TORINO
FORD GALAXIE 500
CHEVROLET IMPALA
PLYMOUTH FURY III
PONTIAC CATALINA
AMC AMBASSADOR DPL
CITROEN DS-21 PALLAS
CHEVROLET CHEVELLE CONCOURS (SW)
FORD TORINO (SW)
PLYMOUTH SATELLITE (SW)
```

```
ojsevillano@cis106vm:~/Documents/Books$ sed 's/Dracula/Alucard/g' dracula.txt | grep Alucard The Project Gutenberg eBook of Alucard, by Bram Stoker
Title:
                   I, as there are no maps of this country as yet to compare
Castle
town named by Count Alucard, is a fairly well-known place. I shall enter
Count Alucar
                 d had directed me to go to the Golden Krone Hotel, which I
was all he knew. When I asked him if he knew Count Alucard, and could
"Count Alucard?" He bowed in a courtly way as he replied:--
 'I am A
                  i; and I bid you welcome, Mr. Harker, to my house. Come in;
         d, jumping to his feet, said:--
Alucard, as it may help me to understand. To-night he may talk of the Turk on his own ground? This was a Alucard indeed! Woe was it that Turk and brought the shame of slavery on them! Was it not this Alucard.
Hungarian yoke, we of the Alucard blood were amongst their leaders, for
Szekelys--and the Alucard as their heart's blood, their brains, and Alucard was speaking, there was that in his eyes and in his bearing
Alucard." I suspected him, and determined to test his sincerity. to my own room. The last I saw of Count Alucard was his kissing his hand
had just been received. It is only a line dated from Castle
terrible events at Whitby when Count Alucard landed, so I shall look
had found in his absence: that the house which Alucard had bought was
sisters in the castle of Alucard. He become so small--we ourselves saw
has been. He must, indeed, have been that Voivode Alucard who won his grave, and are even now arrayed against us. The Alucards were, says 'pokol'--Satan and hell; and in one manuscript this very Alucard is
arranged by Alucard. The house looked as though it had been long
believe in it. Even my own terrible experiences in Castle A
discover on what boat and whither bound Count Alucard made his escape: --
         d we should go by Galatz, or at any rate through Bucharest, so I
marked for one Count Alucard. Sure eneuch the matter was one ready to _Ground of inquiry._--Count Alucard's problem is to get back to his own
close to Alucard's castle as can be got by water.
over the Borgo, and find our way to the Castle of Alucard. Here, Madam awful work, I laid in Alucard's tomb some of the Wafer, and so banished
                      lucard's castle cut the sky; for we were so deep under lucard now stood out against the red sky, and every stone
clear line of
The Castle of
```

```
ojsevillano@cis106vm:~$ 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

sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin

man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
```

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ojsevillano@cis106vm:~/Documents/Books\$ sed G pride-and-prejudice.txt

```
ojsevillano@cis106vm:~$ grep -c "/bin/bash" /etc/passwd
2
ojsevillano@cis106vm:~$ grep -c "/sbin/nologin" /etc/passwd
41
ojsevillano@cis106vm:~$ cd Documents/Csv/
ojsevillano@cis106vm:~/Documents/Csv$ grep -i 'ford' cars.csv | wc -l
53
ojsevillano@cis106vm:~/Documents/Csv$ cd
ojsevillano@cis106vm:~$ cd Documents/Books/
ojsevillano@cis106vm:~/Documents/Books$ cat bible.txt | grep -Eo '\b[a-z0-9]{4}\b' | wc -l
158138
ojsevillano@cis106vm:~/Documents/Books$
```

Challenge Question

```
ojsevillano@cis106vm:~$ awk -F ';' 'NR > 3 {print $1}' Documents/Csv/cereal.csv
100% Natural Bran
All-Bran
All-Bran with Extra Fiber
Almond Delight
Apple Cinnamon Cheerios
Apple Jacks
Basic 4
Bran Chex
Bran Flakes
Cap'n'Crunch
Cheerios
Cinnamon Toast Crunch
Clusters
Cocoa Puffs
Corn Chex
Corn Flakes
Corn Pops
Count Chocula
Cracklin' Oat Bran
Cream of Wheat (Quick)
Crispix
Crispy Wheat & Raisins
```

```
ojsevillano@cis106vm:~/Documents/Csv$ awk -F ';' 'NR > 3 {print$1}' cereal.csv |sort
100% Natural Bran
All-Bran
All-Bran with Extra Fiber
Almond Delight
Apple Cinnamon Cheerios
Apple Jacks
Basic 4
Bran Chex
Bran Flakes
Cap'n'Crunch
Cheerios
Cinnamon Toast Crunch
Clusters
Cocoa Puffs
Corn Chex
Corn Flakes
Corn Pops
Count Chocula
Cracklin' Oat Bran
Cream of Wheat (Quick)
Crispix
Crispy Wheat & Raisins
Double Chex
Froot Loops
Frosted Flakes
Frosted Mini-Wheats
Fruit & Fibre Dates, Walnuts, and Oats
Fruitful Bran
Fruity Pebbles
Golden Crisp
Golden Grahams
Grape-Nuts
Grape Nuts Flakes
Great Grains Pecan
Honey-comb
Honey Graham Ohs
Honey Nut Cheerios
Just Right Crunchy Nuggets
Just Right Fruit & Nut
Kix
Life
Lucky Charms
Maypo
```

```
Muesli Raisins, Dates, & Atmonos
Muesli Raisins, Peaches, & Pecans
Mueslix Crisov Blend
```

ojsevillano@cis106vm:~/Documents/Csv\$ awk -F ';' 'NR > 3 {print \$1,\$4}' cereal.csv | sort 100% Natural Bran 120 All-Bran 70 All-Bran with Extra Fiber 50 Almond Delight 110 Apple Cinnamon Cheerios 110 Apple Jacks 110 Basic 4 130 Bran Chex 90 Bran Flakes 90 Cap'n'Crunch 120 Cheerios 110 Cinnamon Toast Crunch 120 Clusters 110 Cocoa Puffs 110 Corn Chex 110 Corn Flakes 100 Corn Pops 110 Count Chocula 110 Cracklin' Oat Bran 110 Cream of Wheat (Quick) 100