

Lab 7 Handling Files

Question 1

```
amejia40854@cis106:~$ cat /etc/passwd
root:x:0:0: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:/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:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:116::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:118::/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
```

```
amejia40854@cis106:~$ tac /etc/passwd
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
amejia40854:x:1000:1000:andeivi,,,:/home/amejia40854:/bin/bash
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup:/bin/false
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher...:/run/speech-dispatcher:/bin/false
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e
sssd:x:118:125:sssd system user,,,:/var/lib/sssd:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
rtkit:x:116:123:RealtimeKit,,,:/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,,,:/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/
nologin
tcpdump:x:109:118::/nonexistent:/usr/sbin/nologin
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nol
ogin
uuidd:x:107:116::/run/uuidd:/usr/sbin/nologin
tss:x:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbi
n/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/n
ologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
```

```
root:x:0:0:root:/root:/bin/bash
amejia40854@cis106:~$ cat -nE /etc/passwd
 1 root:x:0:0:root:/root:/bin/bash$
 2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
 3 bin:x:2:2:bin:/bin:/usr/sbin/nologin$
 4 sys:x:3:3:sys:/dev:/usr/sbin/nologin$
 5 sync:x:4:65534:sync:/bin:/bin/sync$
 6 games:x:5:60:games:/usr/games:/usr/sbin/nologin$
 7 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
 8 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
 9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
13 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
15 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
16 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
17 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbi
n/nologin$                                     > sudo |
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
19 systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/us
r/sbin/nologin$
20 systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nol
ogin$
21 messagebus:x:102:105::/nonexistent:/usr/sbin/nologin$
22 systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:
/usr/sbin/nologin$
23 syslog:x:104:111::/home/syslog:/usr/sbin/nologin$
24 _apt:x:105:65534::/nonexistent:/usr/sbin/nologin$
25 tss:x:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false$
26 uuidd:x:107:116::/run/uuidd:/usr/sbin/nologin$
27 systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/
sbin/nologin$
28 tcpdump:x:109:118::/nonexistent:/usr/sbin/nologin$
29 avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/u
sr/sbin/nologin$
30 usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin$
31 dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin$
32 kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin$
33 avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
$                                          
34 cups-dk-helper:x:115:122:user for cups-dk-helper service...:/home/cups-d
```

```
sr/sbin/nologin$  
 30  usbmux:x:111:46:usbmux daemon,,,,:/var/lib/usbmux:/usr/sbin/nologin$  
 31  dnsmasq:x:112:65534:dnsmasq,,,,:/var/lib/misc:/usr/sbin/nologin$  
 32  kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,,:/usr/sbin/nologin$  
 33  avahi:x:114:121:Avahi mDNS daemon,,,,:/run/avahi-daemon:/usr/sbin/nologin$  
$  
 34  cups-pk-helper:x:115:122:user for cups-pk-helper service,,,,:/home/cups-pk-helper:/usr/sbin/nologin$  
 35  rtkit:x:116:123:RealtimeKit,,,,:/proc:/usr/sbin/nologin$  
 36  whoopsie:x:117:124::/nonexistent:/bin/false$  
 37  sssd:x:118:125:SSSD system user,,,,:/var/lib/sss:/usr/sbin/nologin$  
 38  speech-dispatcher:x:119:29:Speech Dispatcher,,,,:/run/speech-dispatcher:/bin/false$  
 39  fwupd-refresh:x:120:126:fwupd-refresh user,,,,:/run/systemd:/usr/sbin/nologin$  
 40  nm-openvpn:x:121:127:NetworkManager OpenVPN,,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin$  
 41  saned:x:122:129::/var/lib/saned:/usr/sbin/nologin$  
 42  colord:x:123:130:colord colour management daemon,,,,:/var/lib/colord:/usr/sbin/nologin$  
 43  geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin$  
 44  pulse:x:125:132:PulseAudio daemon,,,,:/run/pulse:/usr/sbin/nologin$  
 45  gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false$  
 46  hplip:x:127:7:HPLIP system user,,,,:/run/hplip:/bin/false$  
 47  gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false$  
 48  ameja40854:x:1000:1000:andeivi,,,,:/home/amejia40854:/bin/bash$  
 49  vboxadd:x:999:1::/var/run/vboxadd:/bin/false$  
 50  _flatpak:x:129:138:Flatpak system-wide installation helper,,,,:/nonexistent:/usr/sbin/nologin$  
amejia40854@cis106:~$ 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  
amejia40854@cis106:~$ tail -5 /etc/passwd  
hplip:x:127:7:HPLIP system user,,,,:/run/hplip:/bin/false  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
amejia40854:x:1000:1000:andeivi,,,,:/home/amejia40854:/bin/bash  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
_flatpak:x:129:138:Flatpak system-wide installation helper,,,,:/nonexistent:/usr/sbin/nologin  
amejia40854@cis106:~$ |
```

Question 2


```
amejia40854@cis106:~$ cut -d ':' -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
tss
uuid
systemd-oom
tcpdump
avahi-autoipd
usbmux
dnsmasq
kernoops
avahi
cups-pk-helper
rtkit
whoopsie
sssd
speech-dispatcher
fwupd-refresh
nm-openvpn
saned
colord
```

> sudo |

```
vboxadu
_flatpak
amejia40854@cis106:~$ 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 > sudo |  
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  
fwupd-refresh:/usr/sbin/nologin  
nm-openvpn:/usr/sbin/nologin  
saned:/usr/sbin/nologin
```

```
vboxadd:/bin/false  
_flatpak:/usr/sbin/nologin  
amejia40854@cis106:~$ 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 > sudo |  
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  
fwupd-refresh = /usr/sbin/nologin  
nm-openvpn = /usr/sbin/nologin
```

```
vboxadd = /bin/false
_flatpak = /usr/sbin/nologin
amejia40854@cis106:~$ cut -d ':' --complement -s -f3 /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:113:TPM software stack,,,,:/var/lib/tpm:/bin/false
uuidd:x:116::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:117:systemd Userspace OOM Killer,,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:118::/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
kernooops: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
```

Question 3

```
amejia40854@cis106:~$ curl -s https://cis106.com/assets/shopping.txt -o shopping.txt
amejia40854@cis106:~$ curl -s https://cis106.com/assets/tasks.txt -o tasks.txt
amejia40854@cis106:~$ wc -l Documents/Books/dracula.txt
15871 Documents/Books/dracula.txt
amejia40854@cis106:~$ wc -w Documents/Books/pride-and-prejudice.txt
130412 Documents/Books/pride-and-prejudice.txt
amejia40854@cis106:~$ sort /etc/passwd
amejia40854:x:1000:1000:andeivi,,,:/home/amejia40854:/bin/bash
_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:123:130: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:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
geoclue:x:124:131:/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:126:65534::/run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
irc: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:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
```

Question 4


```
amejia40854@cis106:~$ cat Documents/Csv/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,Float,Float,Int,Int,Int,Int,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
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,G,C,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,130,3,2,210,2,18,8,100,25,3,1,0.33,0.75,37.038562
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
Cocoa Puffs,G,C,110,1,1,180,0,12,13,55,25,2,1,1,22.736446
Corn Chex,R,C,110,2,0,280,0,22,3,25,25,1,1,1,41.445019
Corn Flakes,K,C,100,2,0,290,1,21,2,35,25,1,1,1,45.863324
Corn Pops,K,C,110,1,0,90,1,13,12,20,25,2,1,1,35.782791
Count Chocula,G,C,110,1,1,180,0,12,13,65,25,2,1,1,22.396513
Cracklin' Oat Bran,K,C,110,3,3,140,4,10,7,160,25,3,1,0.5,40.448772
Cream of Wheat (Quick),N,H,100,3,0,80,1,21,0,-1,0,2,1,1,64.533816
Crispix,K,C,110,2,0,220,1,21,3,30,25,3,1,1,46.895644
Crispy Wheat & Raisins,G,C,100,2,1,140,2,11,10,120,25,3,1,0.75,36.176196
Double Chex,R,C,100,2,0,190,1,18,5,80,25,3,1,0.75,44.330856
Froot Loops,K,C,110,2,1,125,1,11,13,30,25,2,1,1,32.207582
Frosted Flakes,K,C,110,1,0,200,1,14,11,25,25,1,1,0.75,31.435973
Frosted Mini-Wheats,K,C,100,3,0,0,3,14,7,100,25,2,1,0.8,58.345141
Fruit & Fibre Dates, Walnuts, and Oats,P,C,120,3,2,160,5,12,10,200,25,3,1.25,0.6
7,40.917047
Fruitful Bran,K,C,120,3,0,240,5,14,12,190,25,3,1.33,0.67,41.015492
Fruity Pebbles,P,C,110,1,1,135,0,13,12,25,25,2,1,0.75,28.025765
Golden Crisp,P,C,100,2,0,45,0,11,15,40,25,1,1,0.88,35.252444
Golden Grahams,G,C,110,1,1,280,0,15,9,45,25,2,1,0.75,23.804043
Grape Nuts Flakes,P,C,100,3,1,140,3,15,5,85,25,3,1,0.88,52.076897
Grape-Nuts,P,C,110,3,0,170,3,17,3,90,25,3,1,0.25,53.371007
Great Grains Pecan,P,C,120,3,3,75,3,13,4,100,25,3,1,0.33,45.811716
Honey Graham Ohs,Q,C,120,1,2,220,1,12,11,45,25,2,1,1,21.871292
Honey Nut Cheerios,G,C,110,3,1,250,1.5,11.5,10,90,25,1,1,0.75,31.072217
```

```
amejia40854@cis106:~$ grep "love" Documents/Books/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
```

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."

imagination is very rapid; it jumps from admiration to **love**, from **love** Jane, make haste and tell us; make haste, my **love**."

brother Gardiner's in town so much in **love** with her, that my discovered the efficacy of poetry in driving away **love**!"

"I have been used to consider poetry as the _food_ of **love**," said Darcy.

"Of a fine, stout, healthy **love** it may. Everything nourishes what is be a great loss to _me_ to have many such acquaintance. I dearly **love** a to-day. Lydia, my **love**, ring the bell. I must speak to Hill this His plan did not vary on seeing them. Miss Bennet's **lovely** face effects of your **loveliness** and amiable qualifications. As I must, shall choose to attribute it to your wish of increasing my **love** by successful **love**; for Mrs. Bennet, having dawdled about in the vestibule in **love** with you and wants him to marry Miss Darcy. She follows him to is not such a simpleton. Could she have seen half as much **love** in Mr. of being in **love** with you, he is very much in **love** with her friend."

she dared to hope that so much **love** and eloquence awaited her there.

"So much **love** and eloquence"

publish his prosperous **love**.

The possibility of Mr. Collins's fancying himself in **love** with her while her health was so indifferent, and **lovers** were of all people the dishonourable to the stability of her **lover**, she could not prevent its and, luckily for the others, the business of **love**-making relieved them you. I feel as if I had never done you justice, or **loved** you as you

```
amejia40854@cis106:~$ grep -nwE 'love|hate' Documents/Books/pride-and-prejudice.txt
99:by allowance" and "loving with personal love." This distinction applies
105:proper thing to love them. And in the sect--fairly large and yet
166:aversion to actual love. I do not know whether the all-grasping hand of
396:his falling in love at all is not extremely probable. Here again I
408:injured in disposition, and thoroughly in love. As for his being in
409:love, Elizabeth has given as just an exposition of the causes of that
470:ladies with whom it might be a pleasure to fall in love; there are at
474:Grant. I should have been most in love with Beatrix and Argemone; I
575:"So much love and eloquence" 156
756:_may_ fall in love with one of them, and therefore you must visit him as
933:for your sakes we would do anything. Lydia, my love, though you _are_
972:dancing was a certain step towards falling in love; and very lively
1048:"Come, Darcy," said he, "I must have you dance. I hate to see you
1415:way to be very much in love; but she considered with pleasure that it
1430:very few of us who have heart enough to be really in love without
1450:in love as much as she chooses."
1657:imagination is very rapid; it jumps from admiration to love, from love
1764:Jane, make haste and tell us; make haste, my love."
2334:brother Gardiner's in town so much in love with her, that my
2341:discovered the efficacy of poetry in driving away love!"
2343:"I have been used to consider poetry as the _food_ of love," said Darcy.
2345:"Of a fine, stout, healthy love it may. Everything nourishes what is
2821:be a great loss to _me_ to have many such acquaintance. I dearly love a
2868:"And _your_ defect is a propensity to hate everybody."
2986:to-day. Lydia, my love, ring the bell. I must speak to Hill this
3020:him to write to you at all, and very hypocritical. I hate such false
4048:a man agreeable whom one is determined to hate! Do not wish me such an
4707:shall choose to attribute it to your wish of increasing my love by
4745:successful love; for Mrs. Bennet, having dawdled about in the vestibule
5074:in love with you and wants him to marry Miss Darcy. She follows him to
5082:is not such a simpleton. Could she have seen half as much love in Mr.
5093:of being in love with you, he is very much in love with her friend."
5185:she dared to hope that so much love and eloquence awaited her there.
5207: "So much love and eloquence"
5241:publish his prosperous love.
5290:The possibility of Mr. Collins's fancying himself in love with her
5480:and, luckily for the others, the business of love-making relieved them
5614:whom I really love, and still fewer of whom I think well. The more I see
5684:known her much longer than they have known me; no wonder if they love
5710:day, "your sister is crossed in love, I find. I congratulate her. Next
5711:to being married. a girl likes to be crossed in love a little now and
```

amejia40854@cis106:~\$ grep -w "love" Documents/Books/dracula.txt
know her is to **love** her. I long to go through the crowded streets of
also that there is a chapel of old times. We Transylvanian nobles **love**
battlements and casements. I **love** the shade and the shadow, and would
thought and many blushes, her ill-spelt **love**-letter, and writing in my
"You yourself never loved; you never **love**!" On this the other women
"Yes, I too can **love**; you yourselves can tell it from the past. Is it
to speak more. Oh, Mina, couldn't you guess? I **love** him. I am blushing
words. But oh, Mina, I **love** him; I **love** him; I **love** him! There, that
I could **love** him in time; and when I shook my head his hands trembled,
what I would do if I were a man and wanted to make a girl **love** me. No, I
began pouring out a perfect torrent of **love**-making, laying his very
"Yes, there is some one I **love**, though he has not told me yet that he
my dear, and a fine fellow, or you could not **love** him--hasn't spoken
She is so sweet with old people; I think they all fell in **love** with her
but what it is I do not yet know. His redeeming quality is a **love** of
own heart a bit. But, Lord **love** ye, miss, I ain't afraid of dyin', not a
looks, oh, so sweet. If Mr. Holmwood fell in **love** with her seeing her
to have become as much in **love** with the spot as I am, and it is hard to
suffering from a violent brain fever. He wishes me to convey his **love**,
poor dear should have fallen in **love** with any other girl. The idea of
except myself, my life, and my trust, and that with these went my **love**
"Oceans of **love** and millions of kisses, and may you soon be in your own
together; and I **love** him more than ever. He _tells_ me that he loves me
more, but I doubt that, for at first he told me that he couldn't **love** me
"P. S.--Mother sends her **love**. She seems better, poor dear.
back to happiness, and to those that **love** them. It is much to do, and,
that you have done all for her you **love**. Come now and be silent. You
his **love**. He must not stay here. Hold! a moment. I may take it, sir,
her all when she is well; she shall **love** you none the less for what you
12 September.--How good they all are to me. I quite **love** that dear Dr.
as the wolves, and lions, and tigers does. But, Lor' **love** yer 'art, now
love her. One, two, three, all open their veins for her, besides one old
man. Ah yes, I know, friend John; I am not blind! I **love** you all the
that we all **love** has had put into her veins within that time the blood
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
of the verb, I send you simply his '**love**' instead. Good-bye, my dearest
Some may not think it so sad for us, but we had both come to so **love** him
"Arthur! Oh, my **love**, I am so glad you have come!" He was stooping to
"Arthur! Oh, my **love**, I am so glad you have come! Kiss me!" Arthur bent
"Friend John, I pity your poor bleeding heart; and I **love** you the more

```
amejia40854@cis106:~$ grep '^[A-Z0-9]' Documents/Books/dracula.txt
This eBook is for the use of anyone anywhere in the United States and
Title: Dracula
Author: Bram Stoker
Release Date: October, 1995 [eBook #345]
Language: English
Character set encoding: UTF-8
Produced by: Chuck Greif and the Online Distributed Proofreading Team
Contents
CHAPTER I. Jonathan Harker's Journal
CHAPTER II. Jonathan Harker's Journal
CHAPTER III. Jonathan Harker's Journal
CHAPTER IV. Jonathan Harker's Journal
CHAPTER V. Letters—Lucy and Mina
CHAPTER VI. Mina Murray's Journal
CHAPTER VII. Cutting from "The Dailygraph," 8 August
CHAPTER VIII. Mina Murray's Journal
CHAPTER IX. Mina Murray's Journal
CHAPTER X. Mina Murray's Journal
CHAPTER XI. Lucy Westenra's Diary      > sudo |
CHAPTER XII. Dr. Seward's Diary
CHAPTER XIII. Dr. Seward's Diary
CHAPTER XIV. Mina Harker's Journal
CHAPTER XV. Dr. Seward's Diary
CHAPTER XVI. Dr. Seward's Diary
CHAPTER XVII. Dr. Seward's Diary
CHAPTER XVIII. Dr. Seward's Diary
CHAPTER XIX. Jonathan Harker's Journal
CHAPTER XX. Jonathan Harker's Journal
CHAPTER XXI. Dr. Seward's Diary
CHAPTER XXII. Jonathan Harker's Journal
CHAPTER XXIII. Dr. Seward's Diary
CHAPTER XXIV. Dr. Seward's Phonograph Diary, spoken by Van Helsing
CHAPTER XXV. Dr. Seward's Diary
CHAPTER XXVI. Dr. Seward's Diary
CHAPTER XXVII. Mina Harker's Journal
How these papers have been placed in sequence will be made manifest in
DRACULA
CHAPTER I
JONATHAN HARKER'S JOURNAL
Vienna early next morning; should have arrived at 6:46, but train was an
East; the most western of splendid bridges over the Danube, which is
the first time I have seen it.
```

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Archive Foundation, how to help produce our new eBooks, and how to
amejia40854@cis106:~\$ |

Question 5

```
amejia40854@cis106:~$ cd Documents/Csv/ && awk -F';' '{print $1,$NF}' 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
Ford Mustang Boss 302 US
Chevrolet Monte Carlo US
Buick Estate Wagon (sw) US
Toyota Corolla Mark ii Japan
```

```
amejia40854@cis106:~/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
Chevrolet Chevelle Concours (sw) made in US
Ford Torino (sw) made in US
Plymouth Satellite (sw) made in US
AMC Rebel SST (sw) made in US
Dodge Challenger SE made in US
Plymouth 'Cuda 340 made in US
Ford Mustang Boss 302 made in US
Chevrolet Monte Carlo made in US
```

```
amejia40854@cis106:~/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
The 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
The Ford Torino has 8 cylinders and is made in US
The Ford Galaxie 500 has 8 cylinders and is made in US
The Chevrolet Impala has 8 cylinders and is made in US
The Plymouth Fury iii has 8 cylinders and is made in US
The Pontiac Catalina has 8 cylinders and is made in US
The AMC Ambassador DPL has 8 cylinders and is made in US
The Citroen DS-21 Pallas has 4 cylinders and is made in Europe
The Chevrolet Chevelle Concours (sw) has 8 cylinders and is made in US
The Ford Torino (sw) has 8 cylinders and is made in US
The Plymouth Satellite (sw) has 8 cylinders and is made in US
The AMC Rebel SST (sw) has 8 cylinders and is made in US
The Dodge Challenger SE has 8 cylinders and is made in US
The Plymouth 'Cuda 340 has 8 cylinders and is made in US
The Ford Mustang Boss 302 has 8 cylinders and is made in US
The Chevrolet Monte Carlo has 8 cylinders and is made in US
The Buick Estate Wagon (sw) has 8 cylinders and is made in US
```

```
amejia40854@cis106:~/Documents/Csv$ awk 'NR > 3 {print}' cars.csv
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
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
Citroen DS-21 Pallas;0;4;133.0;115.0;3090.;17.5;70;Europe
Chevrolet Chevelle Concours (sw);0;8;350.0;165.0;4142.;11.5;70;US
Ford Torino (sw);0;8;351.0;153.0;4034.;11.0;70;US
Plymouth Satellite (sw);0;8;383.0;175.0;4166.;10.5;70;US
AMC Rebel SST (sw);0;8;360.0;175.0;3850.;11.0;70;US
Dodge Challenger SE;15.0;8;383.0;170.0;3563.;10.0;70;US
Plymouth 'Cuda 340;14.0;8;340.0;160.0;3609.;8.0;70;US
Ford Mustang Boss 302;0;8;302.0;140.0;3353.;8.0;70;US
Chevrolet Monte Carlo;15.0;8;400.0;150.0;3761.;9.5;70;US
Buick Estate Wagon (sw);14.0;8;455.0;225.0;3086.;10.0;70;US
Toyota Corolla Mark ii;24.0;4;113.0;95.00;2372.;15.0;70;Japan
Plymouth Duster;22.0;6;198.0;95.00;2833.;15.5;70;US
AMC Hornet;18.0;6;199.0;97.00;2774.;15.5;70;US
```

```
amejia40854@cis106:~/Documents/Csv$ awk -F';' 'NR > 3 {print toupper($1)}' cars.csv
BUICK SKYLARK 320
PLYMOUTH SATELLITE
AMC REBEL SST
FORD TORINO
FORD GALAXIE 500
CHEVROLET IMPALA
PLYMOUTH FURY III
PONTIAC CATALINA
AMC AMBASSADOR DPL
CITROEN DS-21 PALLAS
CHEVROLET CHEVELLE CONCOURS (SW)
FORD TORINO (SW)
PLYMOUTH SATELLITE (SW)
AMC REBEL SST (SW)
DODGE CHALLENGER SE
PLYMOUTH 'CUDA 340
FORD MUSTANG BOSS 302
CHEVROLET MONTE CARLO
BUICK ESTATE WAGON (SW)
TOYOTA COROLLA MARK II
PLYMOUTH DUSTER
AMC HORNET
> sudo |
amejia40854@cis106:~/Documents/Csv$ cd .. /Books/; sed 's/Dracula/Alucard/g' dracula.txt | grep 'Dracula'
amejia40854@cis106:~/Documents/Books$ |
```

```
amejia40854@cis106:~/Documents/Books$ 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:/sync

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

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
```

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```
amejia40854@cis106:~/Documents/Books$ sed '/^$/N;/^\n$/D' pride-and-prejudice.txt
```

Question 6

```
amejia40854@cis106:~$ grep -c 'bin/bash' /etc/passwd
2
amejia40854@cis106:~$ grep -c 'sbin/nologin' /etc/passwd
40
amejia40854@cis106:~$ grep -ic 'ford' Documents/Csv/cars.csv
53
amejia40854@cis106:~$ grep -cE '\b[A-Za-z]{4}\b' Documents/Books/bible.txt
30309
amejia40854@cis106:~$ |
```

Challenge Question

```
amejia40854@cis106:~/Documents/Csv$ head -1 cereal
head: cannot open 'cereal' for reading: No such file or directory
amejia40854@cis106:~/Documents/Csv$ head -1 cereal
cereal.csv          cereal-sorted.csv
amejia40854@cis106:~/Documents/Csv$ head -1 cereal.csv
name;mfrr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;she
lf;weight;cups;rating
amejia40854@cis106:~/Documents/Csv$ awk -F';' '{OFS=','} {print $1,$4}' cereal.c
sv
awk: line 1: syntax error at or near ,
amejia40854@cis106:~/Documents/Csv$ awk -F';' '{OFS=","} {print $1,$4}' cereal.c
sv
name,calories
String,Int
100% Bran,70
100% Natural Bran,120
All-Bran,70
All-Bran with Extra Fiber,50
Almond Delight,110
Apple Cinnamon Cheerios,110
Apple Jacks,110                               > sudo |
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
Crispix,110
Crispy Wheat & Raisins,100
Double Chex,100
Froot Loops,110
Frosted Flakes,110
Frosted Mini-Wheats,100
Fruit & Fibre Dates, Walnuts, and Oats,120
Fruitful Bran,120
```

```
Honey Nut Cheerios,110
Honey-comb,110
Just Right Crunchy Nuggets,110
Just Right Fruit & Nut,140
Kix,110
Life,100
Lucky Charms,110
Maypo,100
Muesli Raisins, Dates, & Almonds,150
Muesli Raisins, Peaches, & Pecans,150
Mueslix Crispy Blend,160
Multi-Grain Cheerios,100
Nut&Honey Crunch,120
Nutri-Grain Almond-Raisin,140
Nutri-grain Wheat,90
Oatmeal Raisin Crisp,130
Post Nat. Raisin Bran,120
```

```
Product 19,100  
Puffed Rice,50  
Puffed Wheat,50  
Quaker Oat Squares,100 > sudo |  
Quaker Oatmeal,100  
Raisin Bran,120  
Raisin Nut Bran,100  
Raisin Squares,90  
Rice Chex,110  
Rice Krispies,110  
Shredded Wheat,80  
Shredded Wheat 'n'Bran,90  
Shredded Wheat spoon size,90  
Smacks,110  
Special K,110  
Strawberry Fruit Wheats,90  
Total Corn Flakes,110  
Total Raisin Bran,140  
Total Whole Grain,100  
Triples,110  
Trix,110  
Wheat Chex,100  
Wheaties,100  
Wheaties Honey Gold,110  
amejia40854@cis106:~/Documents/Csv$ |
```