

Lab 7

Question

Question 1

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1: atovar@cis106: ~  
atovar@cis106:~$ 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:/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:/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  
sssd:x:118:125:sssd system user,,,:/var/lib/sssd:/usr/sbin/nologin  
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false  
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin  
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin  
saned:x:122:129:/var/lib/saned:/usr/sbin/nologin  
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin  
  
geoclue:x:124:131:/var/lib/geoclue:/usr/sbin/nologin  
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/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  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
atovar:x:1000:1000:Axel,,,:/home/atovar:/bin/bash  
vboxadd:x:999:1:/var/run/vboxadd:/bin/false  
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin  
mopidy:x:130:29:/var/lib/mopidy:/usr/sbin/nologin  
atovar@cis106:~$ _
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1: atovar@cis106: ~

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atovar@cis106:~$ tac /etc/passwd
mopidy:x:130:29::/var/lib/mopidy:/usr/sbin/nologin
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
atovar:x:1000:1000:Axel,,,:/home/atovar:/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
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/nologin
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/sbin/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/nologin
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: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
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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
games:x:5:60:games:/usr/games:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin sync
sys:x:3:3:sys:/dev:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
root:x:0:0:root:/root:/bin/bash
atovar@cis106:~$ _
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1:atovar@cis106:~  
atovar@cis106:~$ cat -nE /etc/passwd  
1 root:x:0:0: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:/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/sbin/nologin$  
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$  
19 systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin$  
20 systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$  
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 uidd:x:107:116:/run/uuid:/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:/usr/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/sssd:/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 atovar:x:1000:1000:Axel,,,:/home/atovar:/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$  
51 mopidy:x:130:29:/var/lib/mopidy:/usr/sbin/nologin$  
atovar@cis106:~$ _
```

```
1: atovar@cis106: ~ ~  
atovar@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  
atovar@cis106:~$ _
```

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1: atovar@cis106: ~ ~  
atovar@cis106:~$ tail -5 /etc/passwd  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
atovar:x:1000:1000:Axel,,,,:/home/atovar:/bin/bash  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin  
mopidy:x:130:29::/var/lib/mopidy:/usr/sbin/nologin  
atovar@cis106:~$ _
```

Question 2

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1: atovar@cis106: ~

```
atovar@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
geoclue
pulse
gnome-initial-setup
hplip
gdm
atovar
vboxadd
_flatpak
mopidy
atovar@cis106:~$
```

```
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1: atovar@cis106: ~  
  
atovar@cis106:~$ cut -d":" -f1,6 /etc/passwd  
root:/root  
daemon:/usr/sbin  
bin:/bin  
sys:/dev  
sync:/bin  
games:/usr/games  
man:/var/cache/man  
lp:/var/spool/lpd  
mail:/var/mail  
news:/var/spool/news  
uucp:/var/spool/uucp  
proxy:/bin  
www-data:/var/www  
backup:/var/backups  
list:/var/list  
irc:/run/ircd  
gnats:/var/lib/gnats  
nobody:/nonexistent  
systemd-network:/run/systemd  
systemd-resolve:/run/systemd  
messagebus:/nonexistent  
systemd-timesync:/run/systemd  
syslog:/home/syslog  
_apt:/nonexistent  
tss:/var/lib/tpm  
uuidd:/run/uuidd  
systemd-oom:/run/systemd  
tcpdump:/nonexistent  
avahi-autoipd:/var/lib/avahi-autoipd  
usbmux:/var/lib/usbmux  
dnsmasq:/var/lib/misc  
kernoops:/  
avahi:/run/avahi-daemon  
cups-pk-helper:/home/cups-pk-helper  
rtkit:/proc  
whoopsie:/nonexistent  
sssd:/var/lib/sssd  
speech-dispatcher:/run/speech-dispatcher  
fwupd-refresh:/run/systemd  
nm-openvpn:/var/lib/openvpn/chroot  
saned:/var/lib/saned  
colord:/var/lib/colord  
  
geoclue:/var/lib/geoclue  
pulse:/run/pulse  
gnome-initial-setup:/run/gnome-initial-setup/  
hplip:/run/hplip  
gdm:/var/lib/gdm3  
atovar:/home/atovar  
vboxadd:/var/run/vboxadd  
_flatpak:/nonexistent  
mopidy:/var/lib/mopidy  
atovar@cis106:~$ _
```

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1: atovar@cis106: ~  
  
atovar@cis106:~$ cut -d":" -f1,6,7 --output-delimiter=" > " /etc/passwd  
root > /root > /bin/bash  
daemon > /usr/sbin > /usr/sbin/nologin  
bin > /bin > /usr/sbin/nologin  
sys > /dev > /usr/sbin/nologin  
sync > /bin > /bin/sync  
games > /usr/games > /usr/sbin/nologin  
man > /var/cache/man > /usr/sbin/nologin  
lp > /var/spool/lpd > /usr/sbin/nologin  
mail > /var/mail > /usr/sbin/nologin  
news > /var/spool/news > /usr/sbin/nologin  
uucp > /var/spool/uucp > /usr/sbin/nologin  
proxy > /bin > /usr/sbin/nologin  
www-data > /var/www > /usr/sbin/nologin  
backup > /var/backups > /usr/sbin/nologin  
list > /var/list > /usr/sbin/nologin  
irc > /run/ircd > /usr/sbin/nologin  
gnats > /var/lib/gnats > /usr/sbin/nologin  
nobody > /nonexistent > /usr/sbin/nologin  
systemd-network > /run/systemd > /usr/sbin/nologin  
systemd-resolve > /run/systemd > /usr/sbin/nologin  
messagebus > /nonexistent > /usr/sbin/nologin  
systemd-timesync > /run/systemd > /usr/sbin/nologin  
syslog > /home/syslog > /usr/sbin/nologin  
_apt > /nonexistent > /usr/sbin/nologin  
tss > /var/lib/tpm > /bin/false  
uuidd > /run/uuidd > /usr/sbin/nologin  
systemd-oom > /run/systemd > /usr/sbin/nologin  
tcpdump > /nonexistent > /usr/sbin/nologin  
avahi-autoipd > /var/lib/avahi-autoipd > /usr/sbin/nologin  
usbmux > /var/lib/usbmux > /usr/sbin/nologin  
dnsmasq > /var/lib/misc > /usr/sbin/nologin  
kernoops > / > /usr/sbin/nologin  
avahi > /run/avahi-daemon > /usr/sbin/nologin  
cups-pk-helper > /home/cups-pk-helper > /usr/sbin/nologin  
rtkit > /proc > /usr/sbin/nologin  
whoopsie > /nonexistent > /bin/false  
sssd > /var/lib/sssd > /usr/sbin/nologin  
speech-dispatcher > /run/speech-dispatcher > /bin/false  
fwupd-refresh > /run/systemd > /usr/sbin/nologin  
nm-openvpn > /var/lib/openvpn/chroot > /usr/sbin/nologin  
saned > /var/lib/saned > /usr/sbin/nologin  
colord > /var/lib/colord > /usr/sbin/nologin  
  
geoclue > /var/lib/geoclue > /usr/sbin/nologin  
pulse > /run/pulse > /usr/sbin/nologin  
gnome-initial-setup > /run/gnome-initial-setup/ > /bin/false  
hplip > /run/hplip > /bin/false  
gdm > /var/lib/gdm3 > /bin/false  
atovar > /home/atovar > /bin/bash  
vboxadd > /var/run/vboxadd > /bin/false  
_flatpak > /nonexistent > /usr/sbin/nologin  
mopidy > /var/lib/mopidy > /usr/sbin/nologin  
atovar@cis106: ~
```

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1: atovar@cis106: ~  
  
atovar@cis106:~$ cut -d"," -f1,6,7 --bin:x:2:2:bin:/bin:/usr/sbin/nologin -s -f3 /etc/passw  
cut: unrecognized option '--bin:x:2:2:bin:/bin:/usr/sbin/nologin'  
Try 'cut --help' for more information.  
atovar@cis106:~$ cut -d"," -f1,6,7 --bin:x:2:2:bin:/bin:/usr/sbin/nologin -s /etc/passwd  
cut: unrecognized option '--bin:x:2:2:bin:/bin:/usr/sbin/nologin'  
Try 'cut --help' for more information.  
atovar@cis106:~$ cut -d"," -f1,6,7 bin:x:2:2:bin:/bin:/usr/sbin/nologin -s /etc/passwd  
cut: 'bin:x:2:2:bin:/bin:/usr/sbin/nologin': No such file or directory  
systemd-network:x:100:102:systemd Network Management  
systemd-resolve:x:101:103:systemd Resolver  
systemd-timesync:x:103:106:systemd Time Synchronization  
tss:x:106:113:TPM software stack  
systemd-oom:x:108:117:systemd Userspace OOM Killer  
avahi-autoipd:x:110:119:Avahi autoip daemon  
usbmux:x:111:46:usbmux daemon  
dnsmasq:x:112:65534:dnsmasq  
kernoops:x:113:65534:Kernel Oops Tracking Daemon  
avahi:x:114:121:Avahi mDNS daemon  
cups-pk-helper:x:115:122:user for cups-pk-helper service  
rtkit:x:116:123:RealtimeKit  
sssd:x:118:125:SSSD system user  
speech-dispatcher:x:119:29:Speech Dispatcher  
fwupd-refresh:x:120:126:fwupd-refresh user  
nm-openvpn:x:121:127:NetworkManager OpenVPN  
colord:x:123:130:colord colour management daemon  
pulse:x:125:132:PulseAudio daemon  
hplip:x:127:7:HPLIP system user  
atovar:x:1000:1000:Axel  
_flatpak:x:129:138:Flatpak system-wide installation helper  
atovar@cis106:~$ _
```

Question 3

1 / 1 + ↻ ↺ Tilix: atovar@cis106: ~

```
1: atovar@cis106: ~ ~  
atovar@cis106:~$ curl https://cis106.com/assets/shopping.txt  
Eggs  
Milk  
Juice  
Carrots  
Potatoes atovar@cis106:~$ curl https://cis106.com/assets/tasks.txt  
Do laundry  
Play Bingo  
Go to Work  
Go to School  
Pay Billsatovar@cis106:~$ _
```

1 / 1 + ↻ ↺ Tilix: atovar@cis106: ~/Documents/Books

```
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ wc -l dracula.txt  
15845 dracula.txt  
atovar@cis106:~/Documents/Books$ _
```

1 / 1 + ↻ ↺ Tilix: atovar@cis106: ~/Documents/Books

```
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ wc -m pride-and-prejudice.txt  
762984 pride-and-prejudice.txt  
atovar@cis106:~/Documents/Books$ _
```

```
atovar@cis106:~/Documents/Books$ cd
atovar@cis106:~$ sort /etc/passwd
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
atovar:x:1000:1000:Axel,,,:/home/atovar:/bin/bash
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
kernooops: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
mopidy:x:130:29::/var/lib/mopidy:/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
pulse:x:125:132: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:122:129::/var/lib/saned:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sssd:/usr/sbin/nologin
sync:x:4:65534:sync:/bin/sync
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
tcpdump:x:109:118::/nonexistent:/usr/sbin/nologin
tss:x:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
uuidd:x:107:116::/run/uuid:/usr/sbin/nologin
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
whoopsie:x:117:124::/nonexistent:/bin/false
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
atovar@cis106:~$ _
```

Question 4


```
1 / 1 + ⌂ ⌂ Tilix: atovar@cis106: ~/Documents/Csv Q ⌂  
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/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,Float,Float,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  
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,130,3,2,210,2,18,8,100,25,3,1,33.0.75,37.038562  
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,120,3,2,160,5,12,10,200,25,3,1.25,0.67,40.917047  
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  
Honey-comb,P,C,110,1,0,180,0,14,11,35,25,1,1,1.33,28.742414  
Just Right Crunchy Nuggets,K,C,110,2,1,170,1,17,6,60,100,3,1,1,36.523683  
Just Right Fruit & Nut,K,C,140,3,1,170,2,20,9,95,100,3,1,3,0.75,36.471512  
Kix,G,C,110,2,1,260,0,21,3,40,25,2,1,1.5,39.241114  
Life,Q,C,100,4,2,150,2,12,6,95,25,2,1,0.67,45.328074  
Lucky Charms,G,C,110,2,1,180,0,12,12,55,25,2,1,1,26.734515  
Maypo,A,H,100,4,1,0,0,16,3,95,25,2,1,1,54.850917  
Muesli Raisins, Dates, & Almonds,R,C,150,4,3,95,3,16,11,170,25,3,1,1,37.136863  
Muesli Raisins, Peaches, & Pecans,R,C,150,4,3,150,3,16,11,170,25,3,1,1,34.139765  
Mueslix Crispy Blend,K,C,160,3,2,150,3,17,13,160,25,3,1,5,0.67,30.313351  
Multi-Grain Cheerios,G,C,100,2,1,220,2,15,6,90,25,1,1,1,40.105965  
Nut&Honey Crunch,K,C,120,2,1,190,0,15,9,40,25,2,1,0.67,29.924285  
Nutri-Grain Almond-Raisin,K,C,140,3,2,220,3,21,7,130,25,3,1,33,0.67,40.692320  
Nutri-grain Wheat,K,C,90,3,0,170,3,18,2,90,25,3,1,1,59.642837  
Oatmeal Raisin Crisp,G,C,130,3,2,170,1.5,13.5,10,120,25,3,1,25,0.5,30.450843  
Post Nat. Raisin Bran,P,C,120,3,1,200,6,11,14,260,25,3,1,33,0.67,37.840594  
Product 19,K,C,100,3,0,320,1,20,3,45,100,3,1,1,41.503540  
Puffed Rice,Q,C,50,1,0,0,0,13,0,15,0,3,0.5,1,60.756112  
Puffed Wheat,Q,C,50,2,0,0,1,10,0,50,0,3,0.5,1,63.005645  
Quaker Oat Squares,Q,C,100,4,1,135,2,14,6,110,25,3,1,0.5,49.511874  
Quaker Oatmeal,Q,H,100,5,2,0,2.7,-1,-1,110,0,1,1,0.67,50.828392  
Raisin Bran,K,C,120,3,1,210,5,14,12,240,25,2,1,33,0.75,39.259197  
Raisin Bran,M,B,100,3,2,140,2,5,12,5,2,10,25,3,1,0,5,39.702400
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Raisin Nut Bran,G,C,100,3,2,140,2.5,10.5,8,140,25,3,1,0.5,39.703400
Raisin Squares,K,C,90,2,0,0,2,15,6,110,25,3,1,0.5,55.333142
Rice Chex,R,C,110,1,0,240,0,23,2,30,25,1,1,1.13,41.998933
Rice Krispies,K,C,110,2,0,290,0,22,3,35,25,1,1,1,40.560159
Shredded Wheat,N,C,80,2,0,0,3,16,0,95,0,1,0.83,1,68.235885
Shredded Wheat 'n'Bran,N,C,90,3,0,0,4,19,0,140,0,1,1,0.67,74.472949
Shredded Wheat spoon size,N,C,90,3,0,0,3,20,0,120,0,1,1,0.67,72.801787
Smacks,K,C,110,2,1,70,1,9,15,40,25,2,1,0.75,31.230054
Special K,K,C,110,6,0,230,1,16,3,55,25,1,1,1,53.131324
Strawberry Fruit Wheats,N,C,90,2,0,15,3,15,5,90,25,2,1,1,59.363993
Total Corn Flakes,G,C,110,2,1,200,0,21,3,35,100,3,1,1,38.839746
Total Raisin Bran,G,C,140,3,1,190,4,15,14,230,100,3,1.5,1,28.592785
Total Whole Grain,G,C,100,3,1,200,3,16,3,110,100,3,1,1,46.658844
Triples,G,C,110,2,1,250,0,21,3,60,25,3,1,0.75,39.106174
Trix,G,C,110,1,1,140,0,13,12,25,25,2,1,1,27.753301
Wheat Chex,R,C,100,3,1,230,3,17,3,115,25,1,1,0.67,49.787445
Wheaties,G,C,100,3,1,200,3,17,3,110,25,1,1,1,51.592193
Wheaties Honey Gold,G,C,110,2,1,200,1,16,8,60,25,1,1,0.75,36.187559
atovar@cis106:~/Documents/Csv$ _
```

1: atovar@cis106: ~/Documents/Books ~

atovar@cis106:~/Documents/Books\$ grep "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 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

1 / 1 + ↻ ↺ Tilix: atovar@cis106: ~/Documents/Books

1: atovar@cis106: ~/Documents/Books ~

you. I feel as if I had never done you justice, or **loved** you as you whom I really **love**, and still fewer of whom I think well. The more I see known her much longer than they have known me; no wonder if they **love** day, "your sister is crossed in **love**, I find. I congratulate her. Next to being married, a girl likes to be crossed in **love** a little now and After a week spent in professions of **love** and schemes of felicity, Mr. such as you describe Mr. Bingley, so easily falls in **love** with a pretty **love** with only a few days before."

"But that expression of 'violently in **love**' is so hackneyed, so Mr. Bingley's **love**?"

finer symptoms? Is not general incivility the very essence of **love**?"

"Oh, yes! of that kind of **love** which I suppose him to have felt. Poor them, from what she saw, to be very seriously in **love**, their preference "You are too sensible a girl, Lizzy, to fall in **love** merely because you myself, and of Mr. Wickham too. He shall not be in **love** with me, if I "I beg your pardon. I will try again. At present I am not in **love** with that I have never been much in **love**; for had I really experienced that her a very good sort of girl. There can be no **love** in all this. My interesting object to all my acquaintance, were I distractedly in **love** delight as the rattle of the chaise. Elizabeth **loved** absurdities, but **lovely** as ever. On the stairs were a troop of little boys and girls, making **love** to a girl whom he did not care about, and who was equally discern any symptom of **love**; and from the whole of his behaviour to Miss gone. "My dear Eliza, he must be in **love** with you, or he would never **love**, and the object of that **love** her friend Eliza, she set herself pleasure in being at Hunsford, her **love** of solitary walks, and her objection,--all **loveliness** and goodness as she is! Her understanding repressed. You must allow me to tell you how ardently I admire and **love** happiness of a most **beloved** sister?"

Mr. Darcy! that he should have been in **love** with her for so many months! so much in **love** as to wish to marry her in spite of all the objections in **love** before. At that ball, while I had the honour of dancing with persuaded to believe herself in **love** and to consent to an elopement. She discovery! Yet, how just a humiliation! Had I been in **love**, I could not have been more wretchedly blind. But vanity, not **love**, has been my **love** before, her regard had all the warmth of first attachment, and from some of your **lovers**? Poor little Lizzy! But do not be cast down. Such "Do not make yourself uneasy, my **love**. Wherever you and Jane are known, "My **love**, should not you like to see a place of which you have heard so work such a change as this. It is impossible that he should still **love** it was to **love**. Of the lady's sensations they remained a little in it was evident that he was very much in **love** with her. They saw much to **loved** her, but for loving her still well enough to forgive all the

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1: atovar@cis106: ~/Documents/Books ~

gratitude--or to **love**, ardent **love**, it must be attributed; and, as pain she was then giving her **beloved** friend, she undoubtedly would have Georgiana without the power of finding her otherwise than **lovely** and wishes; and never had she so honestly felt that she could have **loved** him, as now, when all **love** must be vain.

"But can you think that Lydia is so lost to everything but **love** of him, Since the ---shire were first quartered in Meryton, nothing but **love**, being in **love** with each other many weeks."

world I **love**, and he is an angel. I should never be happy without up. Good-bye. Give my **love** to Colonel Forster. I hope you will husband's **love** of independence had alone prevented their exceeding their next to him, and took off my **glove** and let my hand just rest upon the their elopement had been brought on by the strength of her **love** rather to make it impossible for any young woman of character to **love** or the house, "as ever I saw. He simpers, and smirks, and makes **love** to us **lover**. When first he came in, he had spoken to her but little, but every "I think you are in very great danger of making him as much in **love** with expect a renewal of his **love**? Is there one among the sex who would not "That is a question which I hardly know how to answer. We all **love** to "Come here, my **love**, I want to speak to you," took her out of the room. everything that was charming, except the professed **lover** of her and in spite of his being a **lover**, Elizabeth really believed all his really **loved** me, and nothing but a persuasion of _my_ being indifferent warmly as a man violently in **love** can be supposed to do. Had Elizabeth still have been but for you, dearest, **loveliest** Elizabeth! What do I not that my sister **loved** him, or merely from my information last spring?" acknowledged **lovers** talked and laughed; the unacknowledged were silent. am in earnest. I speak nothing but the truth. He still **loves** me, and we did not always **love** him so well as I do now; but in such cases as these really **love** him quite well enough? Oh, Lizzy! do anything rather than "Why, I must confess that I **love** him better than I do Bingley. I am how long you have **loved** him?"

always had a value for him. Were it for nothing but his **love** of you, I "I do, I do like him," she replied, with tears in her eyes; "I **love** him. paid him; but these violent young **lovers** carry everything their own his **love** for you, and there will be an end of the matter."

lover to any of them. She began at length to recover, to fidget about in But, my dearest **love**, tell me what dish Mr. Darcy is particularly fond Darcy to account for his having ever fallen in **love** with her. "How could of _that_ when they fall in **love**."

for she **loves** to be of use. But tell me, what did you come down to might ever hope to make you **love** me. My avowed one, or what I avowed to only smiles, I laugh. Mr. Darcy sends you all the **love** in the world that

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1: atovar@cis106: ~/Documents/Books ~
```

Since the ----shire were first quartered in Meryton, nothing but **love**, being in **love** with each other many weeks."

world I **love**, and he is an angel. I should never be happy without up. Good-bye. Give my **love** to Colonel Forster. I hope you will husband's **love** of independence had alone prevented their exceeding their next to him, and took off my **glove** and let my hand just rest upon the their elopement had been brought on by the strength of her **love** rather to make it impossible for any young woman of character to **love** or the house, "as ever I saw. He simpers, and smirks, and makes **love** to us **lover**. When first he came in, he had spoken to her but little, but every "I think you are in very great danger of making him as much in **love** with expect a renewal of his **love**? Is there one among the sex who would not "That is a question which I hardly know how to answer. We all **love** to "Come here, my **love**, I want to speak to you," took her out of the room. everything that was charming, except the professed **lover** of her and in spite of his being a **lover**, Elizabeth really believed all his really **loved** me, and nothing but a persuasion of _my_ being indifferent warmly as a man violently in **love** can be supposed to do. Had Elizabeth still have been but for you, dearest, **loveliest** Elizabeth! What do I not that my sister **loved** him, or merely from my information last spring?" acknowledged **lovers** talked and laughed; the unacknowledged were silent. am in earnest. I speak nothing but the truth. He still **loves** me, and we did not always **love** him so well as I do now; but in such cases as these really **love** him quite well enough? Oh, Lizzy! do anything rather than "Why, I must confess that I **love** him better than I do Bingley. I am how long you have **loved** him?"

always had a value for him. Were it for nothing but his **love** of you, I "I do, I do like him," she replied, with tears in her eyes; "I **love** him. paid him; but these violent young **lovers** carry everything their own his **love** for you, and there will be an end of the matter."

lover to any of them. She began at length to recover, to fidget about in But, my dearest **love**, tell me what dish Mr. Darcy is particularly fond Darcy to account for his having ever fallen in **love** with her. "How could of _that_ when they fall in **love**."

for she **loves** to be of use. But tell me, what did you come down to might ever hope to make you **love** me. My avowed one, or what I avowed to only smiles, I laugh. Mr. Darcy sends you all the **love** in the world that being **loved** by her sister.

"I wish you joy. If you **love** Mr. Darcy half so well as I do my dear was exactly what Darcy had hoped to see. They were able to **love** each as well as Elizabeth, really **loved** them; and they were both ever
atovar@cis106:~/Documents/Books\$ _

Tilix: atovar@cis106: ~/Documents/Books

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1: atovar@cis106: ~/Documents/Books ~
atovar@cis106:~/Documents/Books$ grep -Ewn 'love|hate' pride-and-prejudice.txt 99:by allowance" and "loving with person
al 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
5753:After a week spent in professions of love and schemes of felicity, Mr.
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1: atovar@cis106: ~/Documents/Books ~

5805:such as you describe Mr. Bingley, so easily falls in **love** with a pretty
5819:**love** with only a few days before."

5821:"But that expression of 'violently in **love**' is so hackneyed, so
5825:Mr. Bingley's **love**?"

5832:finer symptoms? Is not general incivility the very essence of **love**?"

5834:"Oh, yes! of that kind of **love** which I suppose him to have felt. Poor
5887:them, from what she saw, to be very seriously in **love**, their preference

5934:"You are too sensible a girl, Lizzy, to fall in **love** merely because you
5950:myself, and of Mr. Wickham too. He shall not be in **love** with me, if I
5955:"I beg your pardon. I will try again. At present I am not in **love** with
6143:that I have never been much in **love**; for had I really experienced that
6147:out that I **hate** her at all, or that I am in the least unwilling to think
6148:her a very good sort of girl. There can be no **love** in all this. My
6150:interesting object to all my acquaintance, were I distractedly in **love**
6262:making **love** to a girl whom he did not care about, and who was equally
7071:discern any symptom of **love**; and from the whole of his behaviour to Miss
7212:gone. "My dear Eliza, he must be in **love** with you, or he would never
7243:**love**, and the object of that **love** her friend Eliza, she set herself
7289:pleasure in being at Hunsford, her **love** of solitary walks, and her
7535:repressed. You must allow me to tell you how ardently I admire and **love**
7698:Mr. Darcy! that he should have been in **love** with her for so many months!
7699:so much in **love** as to wish to marry her in spite of all the objections
7799:in **love** before. At that ball, while I had the honour of dancing with
7947:persuaded to believe herself in **love** and to consent to an elopement. She
8138:discovery! Yet, how just a humiliation! Had I been in **love**, I could not
8139:have been more wretchedly blind. But vanity, not **love**, has been my
8805:**love** before, her regard had all the warmth of first attachment, and from
8983:"Do not make yourself uneasy, my **love**. Wherever you and Jane are known,
9285:"My **love**, should not you like to see a place of which you have heard so
9715:work such a change as this. It is impossible that he should still **love**
9914:it was to **love**. Of the lady's sensations they remained a little in
10005:it was evident that he was very much in **love** with her. They saw much to
10034:certainly did not **hate** him. No; hatred had vanished long ago, and she
10053:gratitude--for to **love**, ardent **love**, it must be attributed; and, as
10459:him, as now, when all **love** must be vain.
10638:"But can you think that Lydia is so lost to everything but **love** of him,
10649:Since the ----shire were first quartered in Meryton, nothing but **love**,
10897:being in **love** with each other many weeks."
10935: world I **love**, and he is an angel. I should never be happy without
10946: up. Good-bye. Give my **love** to Colonel Forster. I hope you will
11574:husband's **love** of independence had alone prevented their exceeding their
11903:their elopement had been brought on by the strength of her **love** rather
12052: to make it impossible for any young woman of character to **love** or

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12366:the house, "as ever I saw. He simpers, and smirks, and makes love to us  
12498:say that I hate the very sight of him."  
12702:"I think you are in very great danger of making him as much in love with  
12771:expect a renewal of his love? Is there one among the sex who would not  
12851:"That is a question which I hardly know how to answer. We all love to  
12920:"Come here, my love, I want to speak to you," took her out of the room.  
13740:warmly as a man violently in love can be supposed to do. Had Elizabeth  
13810:make you hate me."  
13994:did not always love him so well as I do now; but in such cases as these  
14012:really love him quite well enough? Oh, Lizzy! do anything rather than  
14021:"Why, I must confess that I love him better than I do Bingley. I am  
14038:always had a value for him. Were it for nothing but his love of you, I  
14128:"I do, I do like him," she replied, with tears in her eyes; "I love him.  
14167:his love for you, and there will be an end of the matter."  
14208:But, my dearest love, tell me what dish Mr. Darcy is particularly fond  
14246:Darcy to account for his having ever fallen in love with her. "How could  
14273:of _that_ when they fall in love."  
14319:might ever hope to make you love me. My avowed one, or what I avowed to  
14353:only smiles, I laugh. Mr. Darcy sends you all the love in the world that  
14478:    "I wish you joy. If you love Mr. Darcy half so well as I do my dear  
14519:was exactly what Darcy had hoped to see. They were able to love each  
atovar@cis106:~/Documents/Books$
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1 / 1  +  ⌂  ↻  TUIIX: atovar@cis106: ~/Documents/
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1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ grep '^love' dracula.txt  
loves you honestly, going away and looking all broken-hearted, and to  
lover; it's more unselfish anyhow. My dear, I'm going to have a pretty  
lover, such a husband, and such a friend.  
lovelier than ever, and we drove up to the house at the Crescent in  
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  
loveliness had come back to her in death, and the hours that had passed,  
loveliness. It frightened and amazed me somewhat; and as for Arthur, he  
love her. Oh, Madam Mina, by that love, I implore you, help me. It is  
lover, but only her physician and her friend. I gave to her my nights  
loved and honoured as our host is, everything regarding him is of  
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  
loved him and honoured him more than I can say, and that my latest and  
loved her, that they did dare much for her sake."  
atovar@cis106:~/Documents/Books$ _
```

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1 / 1 + ⌂ ⌂ Tilix: atovar@cis106: ~/Documents/Books ⌂ Q ⌂  
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ grep -E "^[A-Z]|^[0-9]" 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  
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  
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  
We left in pretty good time, and came after nightfall to Klausenburg.  
Here I stopped for the night at the Hotel Royale. I had for dinner, or
```

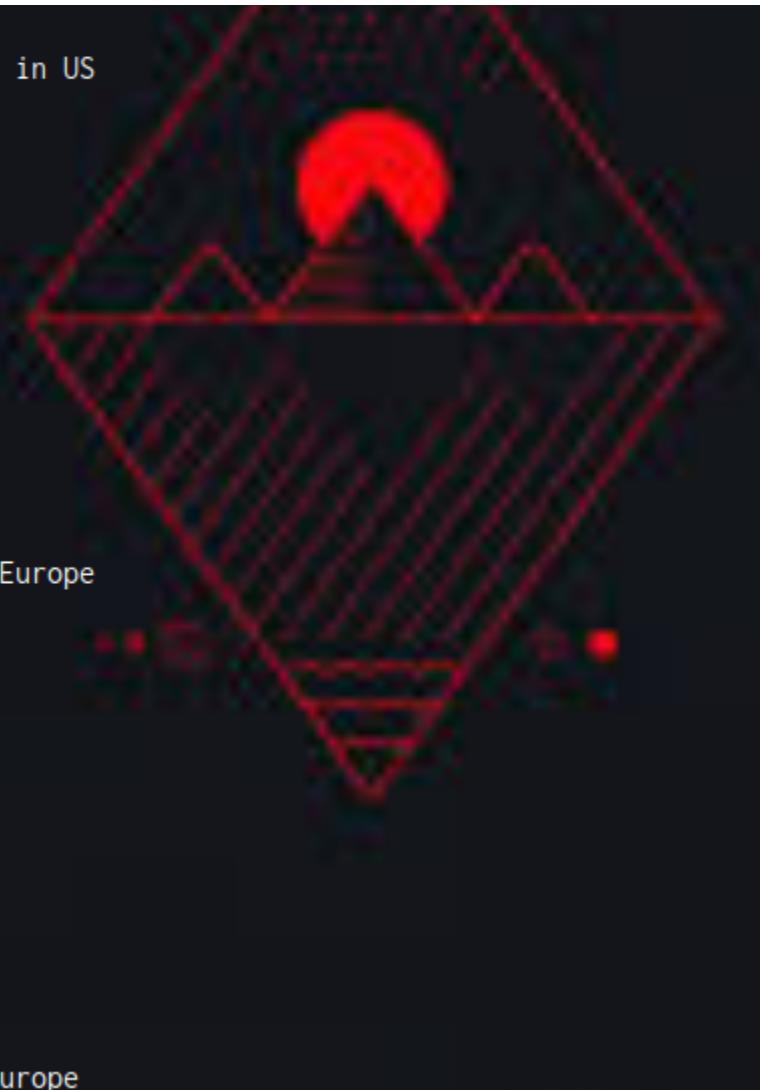
Question 5


```
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/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  
Plymouth Duster US  
AMC Hornet US  
Ford Maverick US  
Datsun PL510 Japan  
Volkswagen 1131 Deluxe Sedan Europe  
Peugeot 504 Europe  
Audi 100 LS Europe  
Saab 99e Europe  
BMW 2002 Europe  
AMC Gremlin US  
Ford F250 US  
Chevy C20 US  
Dodge D200 US  
Hi 1200D US  
Datsun PL510 Japan  
Chevrolet Vega 2300 US  
Toyota Corolla Japan  
Ford Pinto US  
Volkswagen Super Beetle 117 Europe
```

```
1: atovar@cis106: ~/Documents/Csv ~
```

```
atovar@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 DPI 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
Buick Estate Wagon (sw) made in US
Toyota Corolla Mark ii made in Japan
Plymouth Duster made in US
AMC Hornet made in US
Ford Maverick made in US
Datsun PL510 made in Japan
Volkswagen 1131 Deluxe Sedan made in Europe
Peugeot 504 made in Europe
Audi 100 LS made in Europe
Saab 99e made in Europe
BMW 2002 made in Europe
AMC Gremlin made in US
Ford F250 made in US
Chevy C20 made in US
Dodge D200 made in US
Hi 1200D made in US
Datsun PL510 made in Japan
Chevrolet Vega 2300 made in US
Toyota Corolla made in Japan
Ford Pinto made in US
Volkswagen Super Beetle 117 made in Europe
```



```
1: atovar@cis106:~/Documents/Csv ~
atovar@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
The Toyota Corolla Mark ii has 4 cylinders and is made in Japan
The Plymouth Duster has 6 cylinders and is made in US
The AMC Hornet has 6 cylinders and is made in US
The Ford Maverick has 6 cylinders and is made in US
The Datsun PL510 has 4 cylinders and is made in Japan
The Volkswagen 1131 Deluxe Sedan has 4 cylinders and is made in Europe
The Peugeot 504 has 4 cylinders and is made in Europe
The Audi 100 LS has 4 cylinders and is made in Europe
The Saab 99e has 4 cylinders and is made in Europe
The BMW 2002 has 4 cylinders and is made in Europe
The AMC Gremlin has 6 cylinders and is made in US
The Ford F250 has 8 cylinders and is made in US
The Chevy C20 has 8 cylinders and is made in US
The Dodge D200 has 8 cylinders and is made in US
The Hi 1200D has 8 cylinders and is made in US
The Datsun PL510 has 4 cylinders and is made in Japan
The Chevrolet Vega 2300 has 4 cylinders and is made in US
The Toyota Corolla has 4 cylinders and is made in Japan
The Ford Pinto has 4 cylinders and is made in US
The Volkswagen Super Beetle 117 has 4 cylinders and is made in Europe
```

```
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ head -5 cars.csv  
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin  
STRING;DOUBLE;INT;DOUBLE;DOUBLE;DOUBLE;INT;CAT  
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  
atovar@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  
Ford Maverick;21.0;6;200.0;85.00;2587.;16.0;70;US  
Datsun PL510;27.0;4;97.00;88.00;2130.;14.5;70;Japan  
Volkswagen 1131 Deluxe Sedan;26.0;4;97.00;46.00;1835.;20.5;70;Europe  
Peugeot 504;25.0;4;110.0;87.00;2672.;17.5;70;Europe  
Audi 100 LS;24.0;4;107.0;90.00;2430.;14.5;70;Europe  
Saab 99e;25.0;4;104.0;95.00;2375.;17.5;70;Europe  
BMW 2002;26.0;4;121.0;113.0;2234.;12.5;70;Europe  
AMC Gremlin;21.0;6;199.0;90.00;2648.;15.0;70;US  
Ford F250;10.0;8;360.0;215.0;4615.;14.0;70;US  
Chevy C20;10.0;8;307.0;200.0;4376.;15.0;70;US  
Dodge D200;11.0;8;318.0;210.0;4382.;13.5;70;US  
Hi 1200D;9.0;8;304.0;193.0;4732.;18.5;70;US  
Datsun PL510;27.0;4;97.00;88.00;2130.;14.5;71;Japan  
Chevrolet Vega 2300;28.0;4;140.0;90.00;2264.;15.5;71;US
```

```
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ awk -F';' '{print "The ",toupper($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  
The TOYOTA COROLLA MARK II has 4 cylinders and is made in Japan  
The PLYMOUTH DUSTER has 6 cylinders and is made in US  
The AMC HORNET has 6 cylinders and is made in US  
The FORD MAVERICK has 6 cylinders and is made in US  
The DATSUN PL510 has 4 cylinders and is made in Japan  
The VOLKSWAGEN 1131 DELUXE SEDAN has 4 cylinders and is made in Europe  
The PEUGEOT 504 has 4 cylinders and is made in Europe  
The AUDI 100 LS has 4 cylinders and is made in Europe  
The SAAB 99E has 4 cylinders and is made in Europe  
The BMW 2002 has 4 cylinders and is made in Europe  
The AMC GREMLIN has 6 cylinders and is made in US  
The FORD F250 has 8 cylinders and is made in US  
The CHEVY C20 has 8 cylinders and is made in US  
The DODGE D200 has 8 cylinders and is made in US  
The HI 1200D has 8 cylinders and is made in US  
The DATSUN PL510 has 4 cylinders and is made in Japan  
The CHEVROLET VEGA 2300 has 4 cylinders and is made in US  
The TOYOTA COROLLA has 4 cylinders and is made in Japan  
The FORD PINTO has 4 cylinders and is made in US
```

1: atovar@cis106: ~/Documents/Books ~

"By your letter to Mina last night. I was in doubt, and then everything took a hue of unreality, and I did not know what to trust, even the evidence of my own senses. Not knowing what to trust, I did not know what to do; and so had only to keep on working in what had hitherto been the groove of my life. The groove ceased to avail me, and I mistrusted myself. Doctor, you don't know what it is to doubt everything, even yourself. No, you don't; you couldn't with eyebrows like yours." He seemed pleased, and laughed as he said:--

"So! You are physiognomist. I learn more here with each hour. I am with so much pleasure coming to you to breakfast; and, oh, sir, you will pardon praise from an old man, but you are blessed in your wife." I would listen to him go on praising Mina for a day, so I simply nodded and stood silent.

"She is one of God's women, fashioned by His own hand to show us men and other women that there is a heaven where we can enter, and that its light can be here on earth. So true, so sweet, so noble, so little an egoist--and that, let me tell you, is much in this age, so sceptical and selfish. And you, sir--I have read all the letters to poor Miss Lucy, and some of them speak of you, so I know you since some days from the knowing of others; but I have seen your true self since last night. You will give me your hand, will you not? And let us be friends for all our lives."

We shook hands, and he was so earnest and so kind that it made me quite choked.

"And now," he said, "may I ask you for some more help? I have a great task to do, and at the beginning it is to know. You can help me here. Can you tell me what went before your going to Transylvania? Later on I may ask more help, and of a different kind; but at first this will do."

"Look here, sir," I said, "does what you have to do concern the Count?"

"It does," he said solemnly.

"Then I am with you heart and soul. As you go by the 10:30 train, you will not have time to read them; but I shall get the bundle of papers. You can take them with you and read them in the train."

After breakfast I saw him to the station. When we were parting he

1 / 1 + ⌂ ↻ Tilix: atovar@cis106: ~/Documents/Books 🔍 ☰

```
1: atovar@cis106: ~/Documents/Books ~
atovar@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
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
```

```
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ sed '/^$/d;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:/usr/sbin:/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
```

Question 6

```
1 / 1 + ⌂ ↻ Tilix: atovar@cis106: ~/Documents/Books ~  
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ 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  
atovar@cis106:~/Documents/Books$ grep "/bin/bash" /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
atovar:x:1000:1000:Axel,,,,:/home/atovar:/bin/bash  
atovar@cis106:~/Documents/Books$ grep -c "/bin/bash" /etc/passwd  
2  
atovar@cis106:~/Documents/Books$ _
```

```
1 / 1 + ⌂ ↻ Tilix: atovar@cis106: ~ ~  
1: atovar@cis106: ~ ~  
atovar@cis106:~$ grep -c "/sbin/nologin" /etc/passwd  
41  
atovar@cis106:~$ _
```

```
1 / 1 + ⌂ ↻ Tilix: atovar@cis106: ~/Documents/Csv ~  
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ grep -i 'ford' cars.csv | wc -l  
53  
atovar@cis106:~/Documents/Csv$ _
```

```
1 / 1 + ⌂ ↻ Tilix: atovar@cis106: ~/Documents/Books ~  
1: atovar@cis106: ~/Documents/Books ~  
atovar@cis106:~/Documents/Books$ grep -i "\w\{4\}" bible.txt | wc -l  
31102  
atovar@cis106:~/Documents/Books$ _
```

Challenge Question


```
!:/atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ awk -F';' 'NR > 3 {print $1}' 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  
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 Flakes  
Grape-Nuts  
Great Grains Pecan  
Honey Graham Ohs  
Honey Nut Cheerios  
Honey-comb  
Just Right Crunchy Nuggets  
Just Right Fruit & Nut  
Kix  
Life  
Lucky Charms
```

Maypo

```
Muesli Raisins, Dates, & Almonds  
Muesli Raisins, Peaches, & Pecans  
Mueslix Crispy Blend  
Multi-Grain Cheerios  
Nut&Honey Crunch  
Nutri-Grain Almond-Raisin  
Nutri-grain Wheat  
Oatmeal Raisin Crisp  
Post Nat. Raisin Bran  
Product 19  
Puffed Rice  
Puffed Wheat  
Quaker Oat Squares  
Quaker Oatmeal  
Raisin Bran  
Raisin Nut Bran  
Raisin Squares  
Rice Chex  
Rice Krispies  
Shredded Wheat
```

```
Shredded Wheat 'n'Bran  
Shredded Wheat spoon size  
Smacks  
Special K  
Strawberry Fruit Wheats  
Total Corn Flakes  
Total Raisin Bran  
Total Whole Grain  
Triples  
Trix  
Wheat Chex  
Wheaties  
Wheaties Honey Gold  
atovar@cis106:~/Documents/Csv$
```

```
1: atovar@cis106: ~/Documents/Csv ~
```

```
atovar@cis106:~/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, & Almonds
Muesli Raisins, Peaches, & Pecans
Mueslix Crispy Blend
Multi-Grain Cheerios
Nut&Honey Crunch
Nutri-Grain Almond-Raisin
Nutri-grain Wheat
Oatmeal Raisin Crisp
Post Nat. Raisin Bran
Product 19
Puffed Rice
Puffed Wheat
Quaker Oatmeal
Quaker Oat Squares
Raisin Bran
Raisin Nut Bran
Raisin Squares
Rice Chex
Rice Krispies
Shredded Wheat
Shredded Wheat 'n'Bran
Shredded Wheat spoon size
Smacks
Special K
Strawberry Fruit Wheats
Total Corn Flakes
Total Raisin Bran
Total Whole Grain
Triples
Trix
Wheat Chex
Wheaties
Wheaties Honey Gold
atovar@cis106:~/Documents/Csv$ _
```

```
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ head -1 cereal.csv  
name;mf;r;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating  
atovar@cis106:~/Documents/Csv$ awk -F';' '{print $1,$4}' cereal.csv  
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  
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  
Fruity Pebbles 110  
Golden Crisp 100  
Golden Grahams 110  
Grape Nuts Flakes 100  
Grape-Nuts 110  
Great Grains Pecan 120  
Honey Graham Ohs 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
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
atovar@cis106:~/Documents/Csv$ _
```

```
1 / 1 ▾ + ⌂ ↻ Tilix: atovar@cis106: ~/Documents/Csv  
1: atovar@cis106: ~/Documents/Csv ~  
atovar@cis106:~/Documents/Csv$ awk -F';' '{print $1,$4}' cereal.csv | tr ';' ','  
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  
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  
Fruity Pebbles 110  
Golden Crisp 100  
Golden Grahams 110  
Grape Nuts Flakes 100  
Grape-Nuts 110  
Great Grains Pecan 120  
Honey Graham Ohs 120  
Honey Nut Cheerios 110  
Honey-comb 110  
Just Right Crunchy Nuggets 110  
Just Right Fruit & Nut 140
```

```
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
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
atovar@cis106:~/Documents/Csv$ _
```