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Lab 7 Submission

Question 1

```
daakwetee@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:/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
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
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
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daakwetee:x:1000:1000:Diwani,,,:/home/daakwetee:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
daakwetee@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
daakwetee:x:1000:1000:Diwani,,,:/home/daakwetee:/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/sss:/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:KernelOops 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:39:39:ircd:/run/ircd:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
```

```
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
daakwetee@cis106:~$ cat -E /etc/passwd
root:x:0:0:root:/root:/bin/bash$
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
bin:x:2:2:bin:/bin:/usr/sbin/nologin$
sys:x:3:3:sys:/dev:/usr/sbin/nologin$
sync:x:4:65534:sync:/bin:/bin/sync$
games:x:5:60:games:/usr/games:/usr/sbin/nologin$
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin$
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$
messagebus:x:102:105:/nonexistent:/usr/sbin/nologin$
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin$
syslog:x:104:111:/home/syslog:/usr/sbin/nologin$
_apt:x:105:65534:/nonexistent:/usr/sbin/nologin$
tss:x:106:113: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$
daakwetee:x:1000:1000:Diwani,,,:/home/daakwetee:/bin/bash$
vboxadd:x:999:1:/var/run/vboxadd:/bin/false$
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin$
daakwetee@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
daakwetee@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
daakwetee:x:1000:1000:Diwani,,,:/home/daakwetee:/bin/bash
vboxadd:x:999:1:/var/run/vboxadd:/bin/false
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
daakwetee@cis106:~$ █
```

Question 2


```
daakwetee@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
uuidd
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
daakwetee
vboxadd
_flatpak
```

```
daakwetee@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
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
colord:/usr/sbin/nologin
geoclue:/usr/sbin/nologin
pulse:/usr/sbin/nologin
```

```
gnome-initial-setup:/bin/false
hplip:/bin/false
gdm:/bin/false
daakwetee:/bin/bash
vboxadd:/bin/false
_flatpak:/usr/sbin/nologin
daakwetee@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
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
saned = /usr/sbin/nologin
```

```
colord = /usr/sbin/nologin
geoclue = /usr/sbin/nologin
pulse = /usr/sbin/nologin
gnome-initial-setup = /bin/false
hplip = /bin/false
gdm = /bin/false
daakwetee = /bin/bash
vboxadd = /bin/false
_flatpak = /usr/sbin/nologin
daakwetee@cis106:~$ cut -d ':' --complement -f3 /etc/passwd
root:x:0:root:/root:/bin/bash
daemon:x:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2: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
kernoops:x:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
avahi:x:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:124::/nonexistent:/bin/false

sssd:x:125:sssd system user,,,:/var/lib/sssd:/usr/sbin/nologin
speech-dispatcher:x:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
fwupd-refresh:x:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:129::/var/lib/saned:/usr/sbin/nologin
colord:x:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:65534::/run/gnome-initial-setup:/bin/false
hplip:x:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
daakwetee:x:1000:Diwani,,,:/home/daakwetee:/bin/bash
vboxadd:x:1::/var/run/vboxadd:/bin/false
_flatpak:x:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
daakwetee@cis106:~$
```

Question 3

```
daakwetee@cis106:~$ curl -s https://cis106.com/assets/shopping.txt -o shopping.txt
daakwetee@cis106:~$ curl -s https://cis106.com/assets/tasks.txt -o tasks.txt
daakwetee@cis106:~$ paste shopping.txt tasks.txt
Eggs      Do laundry
Milk     Play Bingo
Juice    Go to Work
Carrots   Go to School
Potatoes  Pay Bills

daakwetee@cis106:~$ wc -l ~/Documents/Books/dracula.txt
15845 /home/daakwetee/Documents/Books/dracula.txt
daakwetee@cis106:~$ wc -w ~/Documents/Books/pride-and-prejudice.txt
130412 /home/daakwetee/Documents/Books/pride-and-prejudice.txt
daakwetee@cis106:~$ sort /etc/passwd
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x: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
daakwetee:x:1000:1000:Diwani,,,:/home/daakwetee:/bin/bash
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
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/sss:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/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/uuidd:/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
daakwetee@cis106:~$
```

Question 4


```
daakwetee@cis106:~/Documents/Csv$ cat cereal.csv | tr ':' ',' 
name;mfrr;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
```

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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 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
daakwetee@cis106:~/Documents/Csv$ █
```

daakwetee@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 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

```
daakwetee@cis106:~/Documents/Books$ grep -Ewn 'love|hate' 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
5753:After a week spent in professions of love and schemes of felicity, Mr.
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?"
```

```
daakwetee@cis106:~/Documents/Books$ grep -i '^love ' dracula.txt
love her. One, two, three, all open their veins for her, besides one old
love and pride, seen you grow up. Now I want you to make your home here
love me, and he loves me, and I love you with all the moods and tenses
love her. Oh, Madam Mina, by that love, I implore you, help me. It is
love and from the good, good wishes of those other strong men.
love Mina, I know. Oh, do something to save her. It cannot have gone too
daakwetee@cis106:~/Documents/Books$ █
```

```
daakwetee@cis106:~/Documents/Books$ grep '^[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 Klausenburgh.
Here I stopped for the night at the Hotel Royale. I had for dinner, or
Carpathians. I found my smattering of German very useful here; indeed, I
Having had some time at my disposal when in London, I had visited the
British Museum, and made search among the books and maps in the library
Transylvania, Moldavia and Bukovina, in the midst of the Carpathian
Castle Dracula, as there are no maps of this country as yet to compare
```

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Question 5


```
daakwetee@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
AMC Gremlin US
Plymouth Satellite Custom US
Chevrolet Chevelle Malibu US
Ford Torino 500 US
AMC Matador US
```

```
daakwetee@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
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
AMC Gremlin made in US
Plymouth Satellite Custom made in US
Chevrolet Chevelle Malibu made in US
Ford Torino 500 made in US
AMC Matador made in US
```

```
daakwetee@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
The AMC Gremlin has 6 cylinders and is made in US
The Plymouth Satellite Custom has 6 cylinders and is made in US
The Chevrolet Chevelle Malibu has 6 cylinders and is made in US
The Ford Torino 500 has 6 cylinders and is made in US
The AMC Matador has 6 cylinders and is made in US
```



```
daakwetee@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
Toyota Corolla;25.0;4;113.0;95.00;2228.;14.0;71;Japan
Ford Pinto;25.0;4;98.00;0;2046.;19.0;71;US
Volkswagen Super Beetle 117;0;4;97.00;48.00;1978.;20.0;71;Europe
AMC Gremlin;19.0;6;232.0;100.0;2634.;13.0;71;US
Plymouth Satellite Custom;16.0;6;225.0;105.0;3439.;15.5;71;US
Chevrolet Chevelle Malibu;17.0;6;250.0;100.0;3329.;15.5;71;US
Ford Torino 500;19.0;6;250.0;88.00;3302.;15.5;71;US
AMC Matador;18.0;6;232.0;100.0;3288.;15.5;71;US
Chevrolet Impala;14.0;8;350.0;165.0;4209.;12.0;71;US
Pontiac Catalina Brougham;14.0;8;400.0;175.0;4464.;11.5;71;US
Ford Galaxie 500;14.0;8;351.0;153.0;4154.;13.5;71;US
```

```
daakwetee@cis106:~/Documents/Csv$ awk -F';' 'NR > 2 {print toupper($1)}' cars.csv
CHEVROLET CHEVELLE MALIBU
BUICK SKYLARK 320
PLYMOUTH SATELLITE
AMC REBEL SST
FORD TORINO
FORD GALAXIE 500
CHEVROLET IMPALA
PLYMOUTH FURY III
PONTIAC CATALINA
AMC AMBASSADOR DPL
CITROEN DS-21 PALLAS
CHEVROLET CHEVELLE CONCOURS (SW)
FORD TORINO (SW)
PLYMOUTH SATELLITE (SW)
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
FORD MAVERICK
DATSUN PL510
VOLKSWAGEN 1131 DELUXE SEDAN
PEUGEOT 504
AUDI 100 LS
SAAB 99E
BMW 2002
AMC GREMLIN
FORD F250
CHEVY C20
DODGE D200
HI 1200D
DATSUN PL510
CHEVROLET VEGA 2300
TOYOTA COROLLA
FORD PINTO
VOLKSWAGEN SUPER BEETLE 117
AMC GREMLIN
PLYMOUTH SATELLITE CUSTOM
CHEVROLET CHEVELLE MALIBU
FORD TORINO 500
AMC MATADOR
CHEVROLET IMPALA
PONTIAC CATALINA BROUIGHAM
```

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```
daakwetee@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/g' dracula.txt | grep "Dracula"
daakwetee@cis106:~/Documents/Books$
```



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

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

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

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

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

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

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

lp:x:7:7:lp:/var/spool/lpd:/usr/sbin:/usr/sbin/nologin

mail:x:8:8:mail:/var/mail:/usr/sbin:/usr/sbin/nologin

news:x:9:9:news:/var/spool/news:/usr/sbin:/usr/sbin/nologin

uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin:/usr/sbin/nologin

www-data:x:33:33:www-data:/var/www:/usr/sbin:/usr/sbin/nologin

backup:x:34:34:backup:/var/backups:/usr/sbin:/usr/sbin/nologin

list:x:38:38:Mailing List Manager:/var/list:/usr/sbin:/usr/sbin/nologin

irc:x:39:39:ircd:/run/ircd:/usr/sbin:/usr/sbin/nologin

gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin:/usr/sbin/nologin

nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin:/usr/sbin/nologin

systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin:/usr/sbin/nologin

systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin:/usr/sbin/nologin

messagebus:x:102:105::/nonexistent:/usr/sbin:/usr/sbin/nologin

systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin:/usr/sbin/nologin

syslog:x:104:111::/home/syslog:/usr/sbin:/usr/sbin/nologin

_apt:x:105:65534::/nonexistent:/usr/sbin:/usr/sbin/nologin
```

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

Question 6

```
daakwetee@cis106:~$ grep "/bin/bash" /etc/passwd | wc -l
2
daakwetee@cis106:~$ grep "/sbin/nologin" /etc/passwd | wc -l
40
daakwetee@cis106:~$ grep -i "ford" ~/Documents/Csv/cars.csv | wc -l
53
daakwetee@cis106:~$ grep -owi "[A-Za-z][A-Za-z][A-Za-z][A-Za-z]" ~/Documents/Books/bible.txt
| wc -l
180414
daakwetee@cis106:~$
```

Challenge Question

```
daakwetee@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
```

```
daakwetee@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
```

```
daakwetee@cis106:~/Documents/Csv$ awk -F';' 'NR > 3 {print $1,$4}' cereal.csv | sort
100% Natural Bran 120
All-Bran 70
All-Bran with Extra Fiber 50
Almond Delight 110
Apple Cinnamon Cheerios 110
Apple Jacks 110
Basic 4 130
Bran Chex 90
Bran Flakes 90
Cap'n'Crunch 120
Cheerios 110
Cinnamon Toast Crunch 120
Clusters 110
Cocoa Puffs 110
Corn Chex 110
Corn Flakes 100
Corn Pops 110
Count Chocula 110
Cracklin' Oat Bran 110
Cream of Wheat (Quick) 100
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 110
Grape Nuts Flakes 100
Great Grains Pecan 120
Honey-comb 110
Honey Graham Ohs 120
Honey Nut Cheerios 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
```

```
daakwetee@cis106:~/Documents/Csv$ awk -F',' 'NR > 3 {print $1,$4}' cereal.csv | sort
00% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679
  ll-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
  ll-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
  lmond Delight;R;C;110;2;2;200;1;14;8;-1;25;3;1;0.75;34.384843
  pple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541
  pple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094
  asic 4;G;C;130;3;2;210;2;18;8;100;25;3;1.33;0.75;37.038562
  ran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253
  ran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
  ap'n'Crunch;Q;C;120;1;2;220;0;12;12;35;25;2;1;0.75;18.042851
  heerios;G;C;110;6;2;290;2;17;1;105;25;1;1;1.25;50.764999
  innamom Toast Crunch;G;C;120;1;3;210;0;13;9;45;25;2;1;0.75;19.823573
  lusters;G;C;110;3;2;140;2;13;7;105;25;3;1;0.5;40.400208
  ocoa Puffs;G;C;110;1;1;180;0;12;13;55;25;2;1;1;22.736446
  orn Chex;R;C;110;2;0;280;0;22;3;25;25;1;1;1;41.445019
  orn Flakes;K;C;100;2;0;290;1;21;2;35;25;1;1;1;45.863324
  orn Pops;K;C;110;1;0;90;1;13;12;20;25;2;1;1;35.782791
  ount Chocula;G;C;110;1;1;180;0;12;13;65;25;2;1;1;22.396513
  racklin' Oat Bran;K;C;110;3;3;140;4;10;7;160;25;3;1;0.5;40.448772
  ream of Wheat (Quick);N;H;100;3;0;80;1;21;0;-1;0;2;1;1;64.533816
  rispix;K;C;110;2;0;220;1;21;3;30;25;3;1;1;46.895644
  rispy Wheat & Raisins;G;C;100;2;1;140;2;11;10;120;25;3;1;0.75;36.176196
  ouble Chex;R;C;100;2;0;190;1;18;5;80;25;3;1;0.75;44.330856
  root Loops;K;C;110;2;1;125;1;11;13;30;25;2;1;1;32.207582
  rosted Flakes;K;C;110;1;0;200;1;14;11;25;25;1;1;0.75;31.435973
  rosted Mini-Wheats;K;C;100;3;0;0;3;14;7;100;25;2;1;0.8;58.345141
Fruit & Fibre Dates
  ruitful Bran;K;C;120;3;0;240;5;14;12;190;25;3;1.33;0.67;41.015492
  ruity Pebbles;P;C;110;1;1;135;0;13;12;25;25;2;1;0.75;28.025765
  olden Crisp;P;C;100;2;0;45;0;11;15;40;25;1;1;0.88;35.252444
  olden Grahams;G;C;110;1;1;280;0;15;9;45;25;2;1;0.75;23.804043
  rape Nuts Flakes;P;C;100;3;1;140;3;15;5;85;25;3;1;0.88;52.076897
  rape-Nuts;P;C;110;3;0;170;3;17;3;90;25;3;1;0.25;53.371007
  reat Grains Pecan;P;C;120;3;3;75;3;13;4;100;25;3;1;0.33;45.811716
  oney-comb;P;C;110;1;0;180;0;14;11;35;25;1;1;1.33;28.742414
  oney Graham Ohs;Q;C;120;1;2;220;1;12;11;45;25;2;1;1;21.871292
  oney Nut Cheerios;G;C;110;3;1;250;1.5;11.5;10;90;25;1;1;0.75;31.072217
  ust Right Crunchy Nuggets;K;C;110;2;1;170;1;17;6;60;100;3;1;1;36.523683
  ust Right Fruit & Nut;K;C;140;3;1;170;2;20;9;95;100;3;1.3;0.75;36.471512
  ix;G;C;110;2;1;260;0;21;3;40;25;2;1;1.5;39.241114
  ife;Q;C;100;4;2;150;2;12;6;95;25;2;1;0.67;45.328074
  ucky Charms;G;C;110;2;1;180;0;12;12;55;25;2;1;1;26.734515
  aypo;A;H;100;4;1;0;0;16;3;95;25;2;1;1;54.850917
Muesli Raisins
Muesli Raisins
  ueslix Crispy Blend;K;C;160;3;2;150;3;17;13;160;25;3;1.5;0.67;30.313351
  ulti-Grain Cheerios;G;C;100;2;1;220;2;15;6;90;25;1;1;1;40.105965
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