Lab 7 - Handling files

```
| International Content | Inte
p:x:127:7:HPLIP system user,,;/run/phplp:/bin/false
p:x:127:7:HPLIP system user,,;/run/phplp:/bin/false
p:x:128:134:Gnose Michalw Managarium.rithIndodn:/bin/false
p:x:128:138:Falarbak system-wide installation helper,,;/nonexistent:/usr/sbin/nologin
ddx:xy99:138:Falarbak system-wide installation helper,,;/nonexistent:/usr/sbin/nologin
ddx:xy99:138:Falarbak system-wide installation helper,,;/nonexistent:/usr/sbin/nologin
p:x:127:141-1411.system-wide installation helper,,;/nonexistent:/usr/sbin/nologin
p:x:127:1411-1411.system-wide installation helper,,;/hol/false
p:x:125:132-129-placeadid demon,,;/run/pulse;/usr/sbin/nologin
p:x:127:129-placeadid demon,,;/run/pulse;/usr/sbin/nologin
p:x:124:131:;/var/lib/geoclue:/usr/sbin/nologin
p:x:122:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:129::/var/lib/saned;/usr/sbin/nologin
p:x:121:121:24::/nonexistent:/bin/false
p:x:116:123:Realtinewide;/usr/sbin/nologin
p:x:116:123:Realtinewide;/usr/sbin/nologin
p:x:116:123:Realtinewide;/usr/sbin/nologin
p:x:111:141:121:Avabin pin/sbin/sbin/sbin/sbin/nologin
p:x:111:141:17:Avabin pin/sbin/sbin/sbin/sbin/nologin
p:x:111:161:33:Realtinewide;/usr/sbin/nologin
p:x:111:161:353:Realtinewide;/usr/sbin/nologin
p:x:111:161:353:Realtinewide;/usr/sbin/nologin
p:x:111:161:353:
```

```
ruzafdelacruz-VirtuelBox:-S cat -nE /etc/passwd
root:x:0:0:root:/fnot/bashS
daenon:x:1:1:daenon:/usr/sbtin/usr/sbtin/nologinS
btin:x:2:2:btin:/btin:/usr/sbtin/nologinS
sys:x:3:3:sys:/dev:/usr/sbtin/nologinS
sys:x:3:3:sys:/dev:/usr/sbtin/nologinS
sys:x:3:3:sys:/dev:/usr/sbtin/nologinS
games:x:5:60:games:/usr/games:/usr/sbtin/nologinS
nan:x:6:12:nan:/var/cache/man:/usr/sbtin/nologinS
nan:x:6:12:nan:/var/cache/man:/usr/sbtin/nologinS
nan:x:6:12:nan:/var/spool/lpd:/usr/sbtin/nologinS
news:x:9:0:news:/var/spool/lpd:/usr/sbtin/nologinS
news:x:9:0:news:/var/spool/lpd:/usr/sbtin/nologinS
news:x:9:0:news:/var/spool/lpd:/usr/sbtin/nologinS
news:x:9:0:news:/var/spool/usr/sbtin/nologinS
proxy:x:13:13:proxy:/btin:/usr/sbtin/nologinS
backup:x:34:34:backup:/var/backups:/usr/sbtin/nologinS
backup:x:34:34:backup:/var/backups:/var/tsti-/usr/sbtin/nologinS
tist:x:38:33:34:wathing List Manager:/var/lst:/usr/sbtin/nologinS
gats:x:41:41:Gants Bug-Reporting system (admin):/var/ltb/gaats:/usr/sbin/nologinS
nobody:x:05534:65534:nobody:/nonexistent:/usr/sbin/nologinS
systend-resolvex:x:10:103:2:systemd Network Management.,:/run/systemd:/usr/sbin/nologinS
systend-resolvex:x:10:103:systemd Resolver.,:/run/systemd:/usr/sbin/nologinS
systend-timesync:x:103:106:systemd Time Synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-timesync:x:103:106:systemd Time Synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-timesync:x:103:106:systemd Time Synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-timesync:x:103:106:systemd Synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-timesync:x:103:106:systemd Synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-onex:x:102:108:systemd-synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-onex:x:102:108:systemd-synchronization.,:/run/systemd:/usr/sbin/nologinS
systend-onex:x:102:108:systemd-synchronization.,:/run/systemd:/usr/sbin/nologinS
systemd-onex:x:102:108:systemd-synchronization.,:/run/systemd:/usr/sbin/nologinS
systemd-onex:x:102:108:systemd-synchronization.,://synchro
                    root:x:0:0:root:/root:/bin/bash$
                    hplip:x:127:7:HPLIP system user,
                                                                                                                                   ,,:/run/hplip:/bin/false$
 fdelacruz@fdelacruz-VirtualBox:~$ head -n5 /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
 fdelacruz@fdelacruz-VirtualBox:~$
```

```
fdelacruz@fdelacruz-VirtualBox:~$ tail -n5 /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
fdelacruz:x:1000:1000:Francisco,,,:/home/fdelacruz:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
fdelacruz@fdelacruz-VirtualBox:~$
```

```
fdelacruz@fdelacruz-VirtualBox:~$ head -n1 /etc/passwd
root:x:0:0:root:/root:/bin/bash
fdelacruz@fdelacruz-VirtualBox:~$

fdelacruz@fdelacruz-VirtualBox:~$ head -n1 /etc/passwd && tail -n1 /etc/passwd
root:x:0:0:root:/root:/bin/bash
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
fdelacruz@fdelacruz-VirtualBox:~$
```

delacruz@fdelacruz-VirtualBox:~\$ cat /etc/passwd | awk -F: '{print\$1,\$NF}'| tr " " "=" oot=/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 adm=/bin/false

```
fdelacruz@fdelacruz-VirtualBox: ~ 2043
                                                                                                                                                                                            Box:~$ awk -F: '{print$1,$2,$4,$5,$6,$7}' /etc/passwd
toot x 0 root /root /bin/bash

Jaemon x 1 daemon /usr/sbin /usr/sbin/nologin

Jaemon x 2 bin /bin /usr/sbin/nologin

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

James x 65534 sync /bin /bin/sync

James x 60 games /usr/games /usr/sbin/nologin

Jan x 12 man /var/cache/man /usr/sbin/nologin

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

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

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

Jail x 8 mail /var/spool/lnews /usr/sbin/nologin

Jail x 8 mail /var/spool/uucp /usr/sbin/nologin

Jail x 8 mail /var/spool/uucp /usr/sbin/nologin

Jail x 3 3 www-data /var/www /usr/sbin/nologin
 proxy x 13 proxy /bin /usr/sbin/nologin
www-data x 33 www-data /var/www /usr/sbin/nologin
aackup x 34 backup /var/backups /usr/sbin/nologin
.ist x 38 Mailing List Manager /var/list /usr/sbin/nologin
.rc x 39 ircd /run/ircd /usr/sbin/nologin
.nats 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
.systemd-timesync x 106 systemd Time Synchronization,,, /run/systemd /usr/sbin/nologin
.systemd-timesync x 106 systemd Time Synchronization,,, /run/systemd /usr/sbin/nologin
.systemd x 111 /home/syslog /usr/sbin/nologin
  yslog x 111 /home/syslog /usr/sbin/nologin
apt x 65534 /nonexistent /usr/sbin/nologin
ss x 112 TPM software stack,,, /var/lib/tpm /bin/false
uuidd x 115 /run/uuidd /usr/sbin/nologin
 duidd x 115 /run/uuidd /usr/sbin/nologin
systemd-oom x 116 systemd Userspace OOM Killer,,, /run/systemd /usr/sbin/nologin
copdump x 117 /nonexistent /usr/sbin/nologin
syahi-autoipd x 119 Avahi autoip daemon,,, /var/lib/avahi-autoipd /usr/sbin/nologin
syahi-autoipd x 119 Avahi autoip daemon,,, /var/lib/asbmux /usr/sbin/nologin
Insmasq x 65534 dnsmasq,,, /var/lib/misc /usr/sbin/nologin
sernoops x 65534 Kernel Oops Tracking Daemon,,, / /usr/sbin/nologin
svahi x 121 Avahi mDNS daemon,,, /run/avahi-daemon /usr/sbin/nologin
stups-pk-helper x 122 user for cups-pk-helper service,,, /home/cups-pk-helper /usr/sbin/nologin
tkit x 123 RealtimeKit,,, /proc /usr/sbin/nologin
shoopsie x 124 /nonexistent /bin/false
whoopsie x 124 /nonexistent /bin/false

issd x 125 SSSD system user,,, /var/lib/sss /usr/sbin/nologin

ipeech-dispatcher x 29 Speech Dispatcher,,, /run/speech-dispatcher /bin/false

imupd-refresh x 126 fwupd-refresh user,,, /run/systemd /usr/sbin/nologin

m-openvpn x 127 NetworkManager OpenVPN,,, /var/lib/openvpn/chroot /usr/sbin/nologin

ianed x 129 /var/lib/saned /usr/sbin/nologin

tolord x 130 colord colour management daemon,,, /var/lib/colord /usr/sbin/nologin

peoclue x 131 /var/lib/geoclue /usr/sbin/nologin

pulse x 132 PulseAudio daemon,,, /run/pulse /usr/sbin/nologin

pnome-initial-setup x 65534 /run/gnome-initial-setup/ /bin/false

iplip x 7 HPLIP system user,,, /run/hplip /bin/false

idm x 134 Gnome Display Manager /var/lib/odm3 /bin/false
```

```
fdelacruz@fdelacruz-VirtualBox:~$ curl -s https://cis106.com/assets/shopping.txt -o shopping.txt fdelacruz@fdelacruz-VirtualBox:~$ curl -s https://cis106.com/assets/tasks.txt -o tasks.txt fdelacruz@fdelacruz-VirtualBox:~$ paste shopping.txt Eggs
Milk
Juice
Carrots
Potatoes
fdelacruz@fdelacruz-VirtualBox:~$ paste tasks.txt

Do laundry
Play Bingo
Go to Work
Go to School
Pay Bills
fdelacruz@fdelacruz-VirtualBox:~$ [
```

```
fdelacruz@fdelacruz-VirtualBox:~$ wc Documents/Books/dracula.txt
15845 164354 890196 Documents/Books/dracula.txt
fdelacruz@fdelacruz-VirtualBox:~$ wc Documents/Books/dracula.txt | awk '{print$1}'
15845
fdelacruz@fdelacruz-VirtualBox:~$
```

```
fdelacruz@fdelacruz-VirtualBox:~$ wc Documents/Books/pride-and-prejudice.txt | awk '{print$2}'
130412
fdelacruz@fdelacruz-VirtualBox:~$

fdelacruz@fdelacruz-VirtualBox:~$
```

```
delacruz@fdelacruz-VirtualBox:~$ cat Documents/Csv/cereal.csv | tr ";
ame, mfr, type, calories, protein, fat, sodium, fiber, carbo, sugars, potass, vitamins, shelf, weight, cups, rating tring, Categorical, Categorical, Int, Int, Int, Int, Float, F
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
innamon 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,110,1,0,200,1,14,11,25,25,1,0.75,31,435973
  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
ruit & Fibre Dates, Walnuts, and Oats, P,C,120,3,2,160,5,12,10,200,25,3,1.25,0.67,40.917047
ruitful Bran, K,C,120,3,0,240,5,14,12,190,25,3,1.33,0.67,41.015492
ruttrut 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, 1100, 3, 1, 140, 3, 15, 5, 85, 25, 3, 1, 0.88, 52.076897 irape-Nuts, P, C, 110, 3, 0, 170, 3, 17, 3, 90, 25, 3, 1, 0.25, 53.371007 ireat Grains Pecan, P, C, 120, 3, 3, 75, 3, 13, 4, 100, 25, 3, 1, 0.33, 45.811716 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, 075
oney-comb,P,C,110,1,0,180,0,14,11,35,25,1,1,1.33,28.742414

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

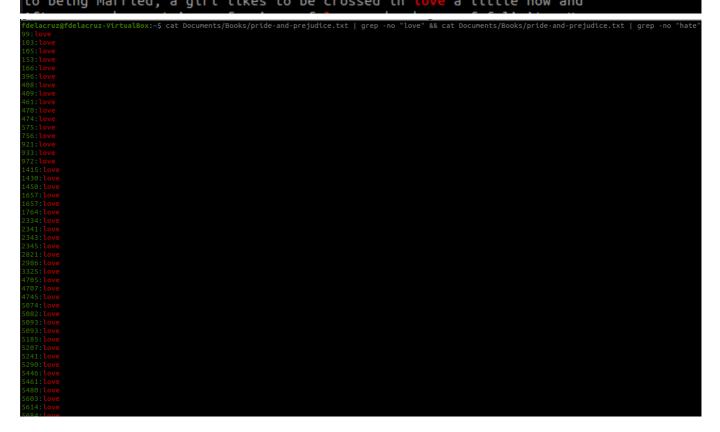
ife,Q,C,100,4,2,150,2,12,6,95,25,2,1,0.67,45.328074

ucky Charms,G,C,110,2,1,180,0,12,12,55,25,2,1,1,26.734515
                                                                                                                                  Almonds.R.C.150.4.3.95.3.16.11.170.25.3.1.1.37.136863
```

fdelacruz@fdelacruz-VirtualBox:~\$ grep love Documents/Books/pride-and-prejudice.txt by allowance" and "loving with personal love." This distinction applies to their best work than in the case of those others who are loved "by proper thing to love them. And in the sect--fairly large and yet All the minor passages--the loves of Jane and Bingley, the advent of Mr. aversion to actual **love**. I do not know whether the ott gain I his falling in **love** at all is not extremely probable. Here again I have a for his being in **ve.** I do not know whether the all-grasping hand of ve. As for his being in e, 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" _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 ve 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.

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 to being married, a girl likes to be crossed in love a little now and





```
fdelacruz@fdelacruz-VirtualBox:~/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
```

fdelacruz@fdelacruz-VirtualBox:~/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

```
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
ord 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
```

```
The Care Company of the Company of t
```

```
fdelacruz@fdelacruz-VirtualBox:~/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
```

```
delacruz@fdelacruz-VirtualBox:~/Documents/Csv$ awk 'NR > 2 {print toupper($1)}' cars.csv
CHEVROLET
PLYMOUTH
FORD
FORD
CHEVROLET
PLYMOUTH
PONTIAC
AMC
FORD
PLYMOUTH
DODGE
FORD
PLYMOUTH
AMC
FORD
VOLKSWAGEN
PEUGEOT
BMW
AMC
FORD
CHEVROLET
TOYOTA
VOLKSWAGEN
PLYMOUTH
CHEVROLET
FORD
```

fdelacruz@fdelacruz-VirtualBox:~/Documents/Books\$ sed 's/Dracula/Alucard/g' dracula.txt

moment Mr. Morris's bowie knife plunged into the heart.

It was like a miracle; but before our very eyes, and almost in the drawing of a breath, the whole body crumbled into dust and passed from our sight.

I shall be glad as long as I live that even in that moment of final dissolution, there was in the face a look of peace, such as I never could have imagined might have rested there.

The Castle of Alucard now stood out against the red sky, and every stone of its broken battlements was articulated against the light of the setting sun.

The gypsies, taking us as in some way the cause of the extraordinary disappearance of the dead man, turned, without a word, and rode away as if for their lives. Those who were unmounted jumped upon the leiter-wagon and shouted to the horsemen not to desert them. The wolves, which had withdrawn to a safe distance, followed in their wake, leaving us alone.

Mr. Morris, who had sunk to the ground, leaned on his elbow, holding his hand pressed to his side; the blood still gushed through his fingers. I flew to him, for the Holy circle did not now keep me back; so did the two doctors. Jonathan knelt behind him and the wounded man laid back his head on his shoulder. With a sigh he took, with a feeble effort, my hand in that of his own which was unstained. He must have seen the anguish of my heart in my face, for he smiled at me and said:--

"I am only too happy to have been of any service! Oh, God!" he cried suddenly, struggling up to a sitting posture and pointing to me, "It was worth for this to die! Look! look!"

The sun was now right down upon the mountain top, and the red gleams fell upon my face, so that it was bathed in rosy light. With one impulse the men sank on their knees and a deep and earnest "Amen" broke from all as their eyes followed the pointing of his finger. The dying man spoke:--

"Now God be thanked that all has not been in vain! See! the snow is not more stainless than her forehead! The curse has passed away!"

And, to our bitter grief, with a smile and in silence, he died, a gallant gentleman.

```
fdelacruz@fdelacruz-VirtualBox:~/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:/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
Most people start at our website which has the main PG search
facility: www.gutenberg.org
This website includes information about Project Gutenberg-tm,
including how to make donations to the Project Gutenberg Literary
Archive Foundation, how to help produce our new eBooks, and how to
subscribe to our email newsletter to hear about new eBooks.
```

Question 6

fdelacruz@fdelacruz-VirtualBox:~/Documents/Books\$ sed '/^\$/d;G' pride-and-prejudice.txt