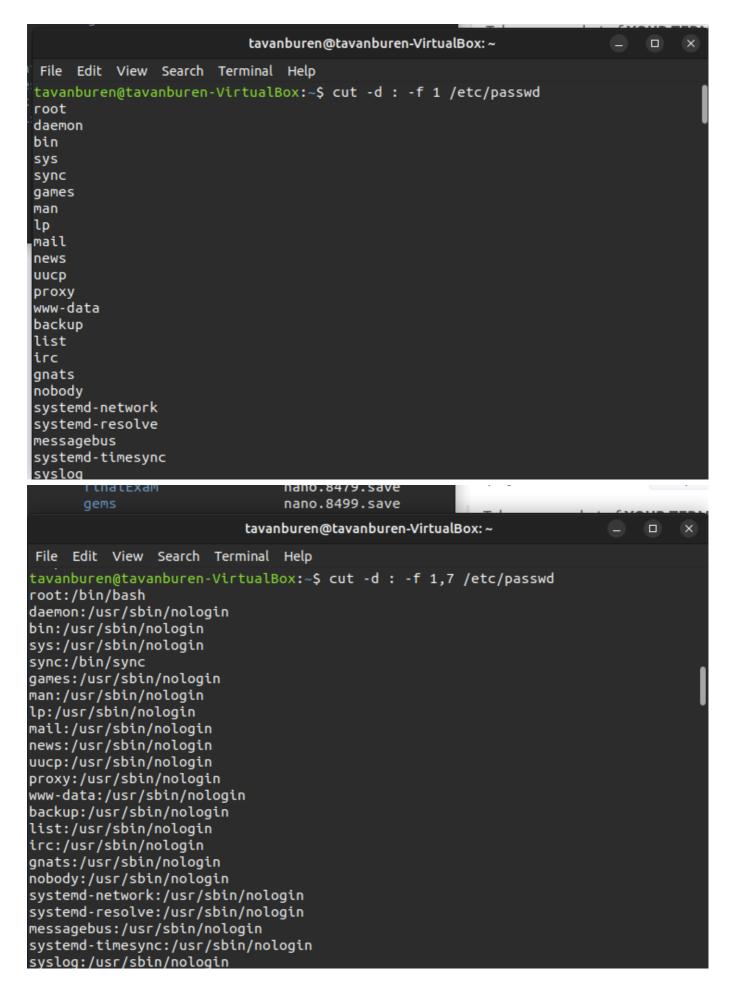
```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ cat /etc/passwd
-oot:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
oin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
nan:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
nail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
ucp: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
packup: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
nats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nolog
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
nessagebus:x:102:105::/nonexistent:/usr/sbin/nologin
                         tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
fwupd-refresh:x:129:140:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
tavanburen@tavanburen-VirtualBox:~$ tac /etc/passwd
fwupd-refresh:x:129:140:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
dummy:x:1001:1001:Dum My,12,111111111,22222222,Yeah:/home/dummy:/bin/bash
flatpak:x:128:139:Flatpak system-wide installation helper,,,:/nonexistent:/usr
/sbin/nologin
tavanburen:x:1000:1000:tavanburen,,,:/home/tavanburen:/bin/bash
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/n
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbi
n/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/fal
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-helpe
r:/usr/sbin/nologin
```

```
tavanburen@tavanburen-VirtualBox: ~
                                                                         File Edit View Search Terminal Help
oot:x:0:0:root:/root:/bin/bash
avanburen@tavanburen-VirtualBox:~$ cat -nE /etc/passwd
       root:x:0:0:root:/root:/bin/bash$
       daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
    2
       bin:x:2:2:bin:/bin:/usr/sbin/nologin$
      sys:x:3:3:sys:/dev:/usr/sbin/nologin$
    4
      sync:x:4:65534:sync:/bin:/bin/sync$
       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$
       mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
    9
       news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
   10
      uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
   11
       proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
   12
   13
       www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
       backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
   14
   15 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
       irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
   16
       qnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sb
   17
.n/nologin$
       nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
       systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/u
r/sbin/nologin$
       systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/no
                         tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
       gnome-initial-setup:x:125:65534::/run/gnome-initial-setup/:/bin/false$
       hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false$
   45
   46
       gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false$
       tavanburen:x:1000:1000:tavanburen,,,:/home/tavanburen:/bin/bash$
   47
       _flatpak:x:128:139:Flatpak system-wide installation helper,,,:/nonexist
ent:/usr/sbin/nologin$
   49 dummy:x:1001:1001:Dum My,12,1111111111,2222222222,Yeah:/home/dummy:/bin
/bash$
       fwupd-refresh:x:129:140:fwupd-refresh user,,,:/run/systemd:/usr/sbin/no
   50
login$
tavanburen@tavanburen-VirtualBox:~$ head -n 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
tavanburen@tavanburen-VirtualBox:~$ tail -n 5 /etc/passwd
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
tavanburen:x:1000:1000:tavanburen,,,:/home/tavanburen:/bin/bash
_flatpak:x:128:139:Flatpak system-wide installation helper,,,:/nonexistent:/usr
/sbin/nologin
dummy:x:1001:1001:Dum My,12,1111111111,222222222,Yeah:/home/dummy:/bin/bash
fwupd-refresh:x:129:140:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
tavanburen@tavanburen-VirtualBox:~$
```



```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
ummy:/bln/basn
fwupd-refresh:/usr/sbin/nologin
tavanburen@tavanburen-VirtualBox:~$ cut -d : -f 1,7 --output-delimiter="=" /etc/
basswd
root=/bin/bash
daemon=/usr/sbin/nologin
oin=/usr/sbin/nologin
sys=/usr/sbin/nologin
sync=/bin/sync
games=/usr/sbin/nologin
nan=/usr/sbin/nologin
lp=/usr/sbin/nologin
mail=/usr/sbin/nologin
news=/usr/sbin/nologin
Jucp=/usr/sbin/nologin
oroxy=/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
                          tavanburen@tavanburen-VirtualBox: ~
                                                                            ×
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ cut --complement -d : -f 3 /etc/passwd
root:x:0:root:/root:/bin/bash
daemon:x:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:bin:/bin:/usr/sbin/nologin
sys:x:3:sys:/dev:/usr/sbin/nologin
sync:x:65534:sync:/bin:/bin/sync
games:x:60:games:/usr/games:/usr/sbin/nologin
man:x:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nolog
in
systemd-resolve:x:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
```

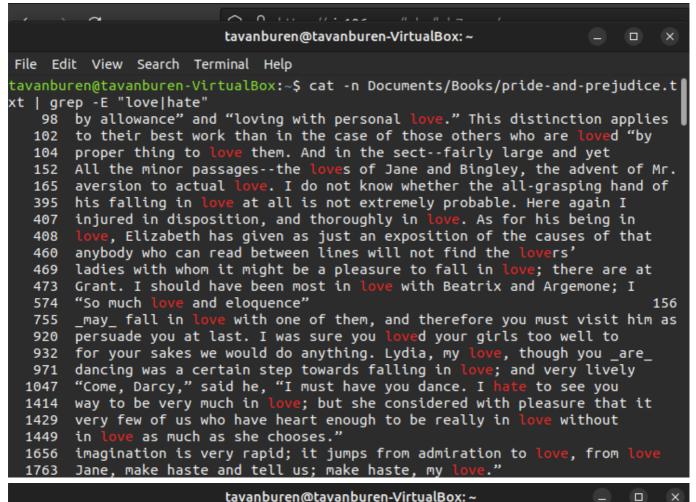
Question 3

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

```
tavanburen@tavanburen-VirtualBox: ~
                                                                           File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ curl -s https://cis106.com/assets/shopping.t
xt -o shopping.txt
tavanburen@tavanburen-VirtualBox:~$ curl -s https://cis106.com/assets/tasks.txt
-o tasks.txt
tavanburen@tavanburen-VirtualBox:~$ paste shopping.txt tasks.txt
       Do laundry
Eggs
Milk
       Play Bingo
Juice
       Go to Work
                Go to School
Carrots
Potatoes
                Pay Bills
tavanburen@tavanburen-VirtualBox:~$ wc -l Documents/Books/dracula.txt
15860 Documents/Books/dracula.txt
tavanburen@tavanburen-VirtualBox:~$ wc -w Documents/Books/pride-and-prejudice.tx
130406 Documents/Books/pride-and-prejudice.txt
tavanburen@tavanburen-VirtualBox:~$ sort /etc/passwd
apt:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/
nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/no
login
```

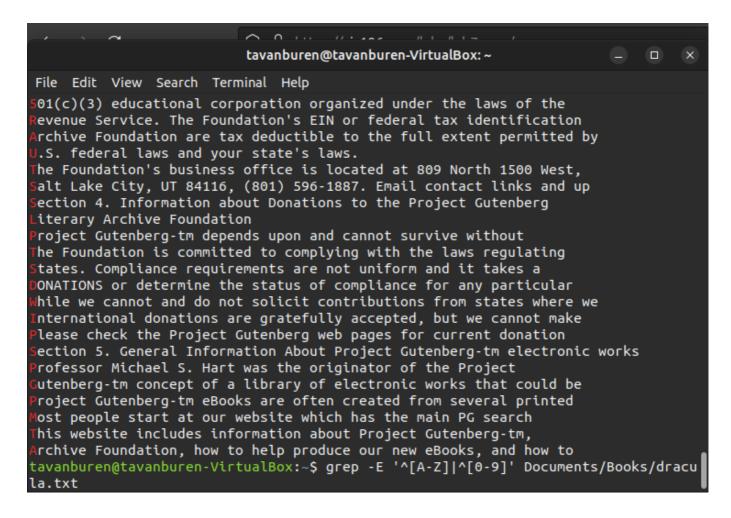
```
tavanburen@tavanburen-VirtualBox: ~
                                                                          File Edit View Search Terminal Help
avanburen@tavanburen-VirtualBox:~$ cat Documents/Csv/cereal.csv | tr ";" ","
ame,mfr,type,calories,protein,fat,sodium,fiber,carbo,sugars,potass,vitamins,she
f,weight,cups,rating
tring,Categorical,Categorical,Int,Int,Int,Float,Float,Int,Int,Int,Int,Float
Float,Float
00% Bran,N,C,70,4,1,130,10,5,6,280,25,3,1,0.33,68.402973
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
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
```

tavanburen@tavanburen-VirtualBox: ~ File Edit View Search Terminal Help tavanburen@tavanburen-VirtualBox:~\$ cat Documents/Books/pride-and-prejudice.txt grep "love" 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. eversion to actual love. I do not know whether the all-grasping hand of nis falling in <mark>love</mark> at all is not extremely probable. Here again I injured in disposition, and thoroughly in love. As for his being in , Elizabeth has given as just an exposition of the causes of that anybody who can read between lines will not find the 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_ fancing 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 1 prother Gardiner's in town so much in love with her, that my



tavanburen@tavanburen-VirtualBox: ~

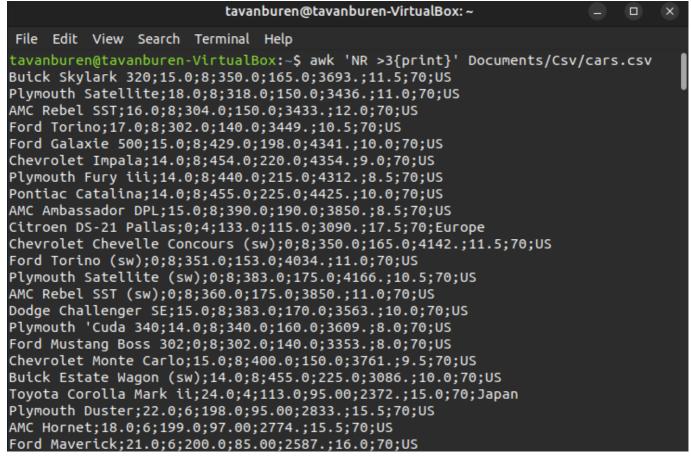
File Edit View Search Terminal Help tavanburen@tavanburen-VirtualBox:~\$ grep ^'love' Documents/Books/dracula.txt ves you honestly, going away and looking all broken-hearted, and to er; it's more unselfish anyhow. My dear, I'm going to have a pretty er, such a husband, and such a friend. elier than ever, and we drove up to the house at the Crescent in e her. One, two, three, all open their veins for her, besides one old and pride, seen you grow up. Now I want you to make your home here me, and he loves me, and I love you with all the moods and tenses \cdot liness had come back to her in death, and the hours that had passed, eliness. It frightened and amazed me somewhat; and as for Arthur, he e her. Oh, Madam Mina, by that love, I implore you, help me. It is r, but only her physician and her friend. I gave to her my nights red and honoured as our host is, everything regarding him is of e and from the good, good wishes of those other strong men. Mina, I know. Oh, do something to save her. It cannot have gone too ed him and honoured him more than I can say, and that my latest and /ed her, that they did dare much for her sake." :avanburen@tavanburen-VirtualBox:~\$

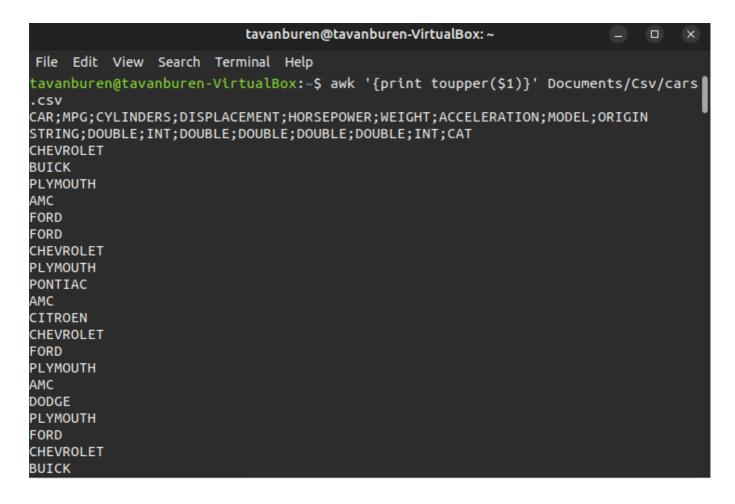


```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
avanburen@tavanburen-VirtualBox:~$ awk -F ";" '{print $1,$9}' Documents/Csv/car
.csv
ar Origin
TRING CAT
hevrolet Chevelle Malibu US
uick Skylark 320 US
lymouth Satellite US
MC Rebel SST US
ord Torino US
ord Galaxie 500 US
hevrolet Impala US
lymouth Fury iii US
ontiac Catalina US
MC Ambassador DPL US
itroen DS-21 Pallas Europe
hevrolet Chevelle Concours (sw) US
ord Torino (sw) US
lymouth Satellite (sw) US
MC Rebel SST (sw) US
odge Challenger SE US
lymouth 'Cuda 340 US
ord Mustang Boss 302 US
hevrolet Monte Carlo US
uick Estate Wagon (sw) US
of YOUR TERMINAL ONLY showing all the commands that you used to
```

File Edit View Search Terminal Help tavanburen@tavanburen-VirtualBox:~\$ awk -F ";" '{OFS=" made in "}{print \$1,\$9}' Documents/Csv/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

```
tavanburen@tavanburen-VirtualBox: ~
                                                                           ×
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ awk -F ";" '{print "The",$1,"has",$3,"cylind
ers and is made in",$9}' Documents/Csv/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
```





tavanburen@tavanburen-VirtualBox: ~



File Edit View Search Terminal Help

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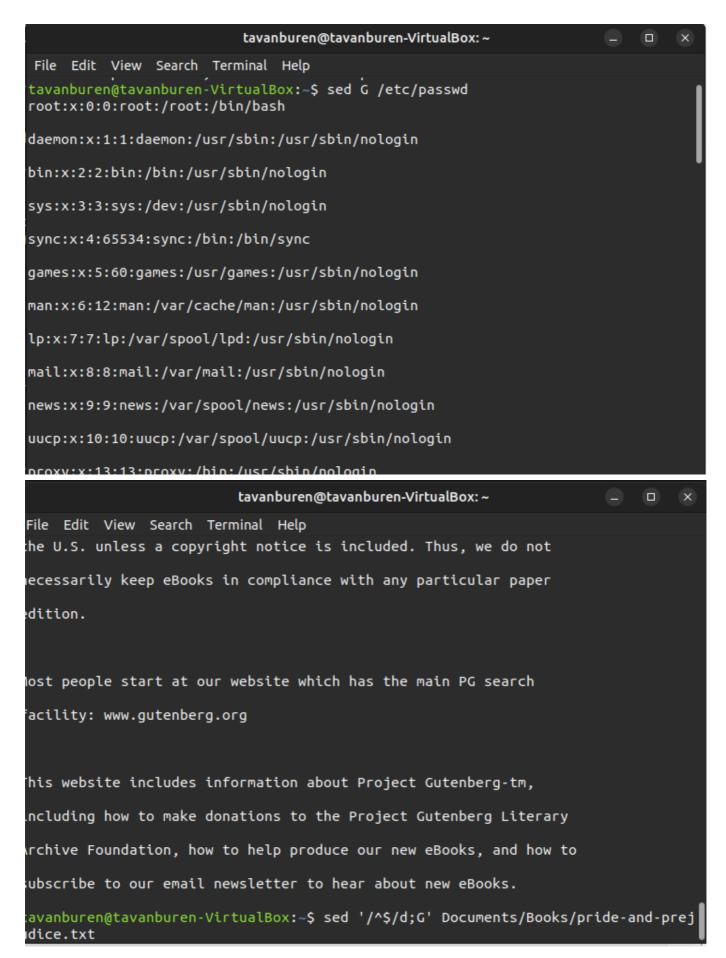
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tavanburen@tavanburen-VirtualBox:~\$ sed 's/Dracula/Alucard/' Documents/Books/dra cula.txt



```
tavanburen@tavanburen-VirtualBox:~

File Edit View Search Terminal Help

tavanburen@tavanburen-VirtualBox:~$ grep "bin/bash" /etc/passwd | wc -l

3

tavanburen@tavanburen-VirtualBox:~$ grep "/sbin/nologin" /etc/passwd | wc -l

40

tavanburen@tavanburen-VirtualBox:~$ grep -i "ford" Documents/Csv/Cars.csv | wc -l

grep: Documents/Csv/Cars.csv: No such file or directory

0

tavanburen@tavanburen-VirtualBox:~$ grep -i "ford" Documents/Csv/cars.csv | wc -l

53

tavanburen@tavanburen-VirtualBox:~$ grep -i -w -o '[a-z]..[a-z]' Documents/Books

/bible.txt | wc -w

188252

tavanburen@tavanburen-VirtualBox:~$ .
```

Challenge Question

```
tavanburen@tavanburen-VirtualBox: ~
                                                                            File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ awk -F ";" 'NR>3' Documents/Csv/cereal.csv |
cut -f 1 -d ";"
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
tavanburen@tavanburen-VirtualBox:~$ awk -F ";" 'NR>3' Documents/Csv/cereal.csv |
 cut -f 1 -d ";" | sort > Documents/Csv/cereal-sorted.csv
tavanburen@tavanburen-VirtualBox:~$
```

```
tavanburen@tavanburen-VirtualBox: ~
File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ cut -f 1,4 -d ";" Documents/Csv/cereal.csv |
awk 'NR>3'
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
                           tavanburen@tavanburen-VirtualBox: ~
                                                                             File Edit View Search Terminal Help
tavanburen@tavanburen-VirtualBox:~$ cut -f 1,4 -d ";" --output-delimiter="," Doc
```

```
uments/Csv/cereal.csv | awk 'NR>3'
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
Crisny Wheat & Raisins 100
```