```
angel922@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:/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:/var/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
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:114::/run/uuidd:/usr/sbin/nologin
 tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
 avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,;:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:110:46:usbmux daemon,,;:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,;:/proc:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
hplip:x:118:124:NetworkManager OpenVPN,,,;/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
adm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
```

```
ingel922@cis106:~$ tac /etc/passwd
 _flatpak:x:127:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
angel922:x:1000:1000:Angel,,,:/home/angel922:/bin/bash
sssd:x:126:131:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
pulse:x:123:128:PulseAudio daemon,,,;/var/run/pulse:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
whoopsie:x:120:125::/nonexistent:/bin/false
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
uuidd:x:107:114::/run/uuidd:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/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:/var/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
```

```
ngel922@cis106:~$ cat -n /etc/passwd
1 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
     10
          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
     14
          irc:x:39:39:ircd:/var/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
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
     20
           messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
          syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
     24
          tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:114::/run/uuidd:/usr/sbin/nologin
           tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin
          avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
     28
          usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologinrtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
          rtkit:x:111:117:RealtimeKit,,,:/proc:/Usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
avahi:x:115:121:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
     32
          saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
          nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
whoopsie:x:120:125::/nonexistent:/bin/false
     39
          colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
deoclue:x:122:127::/var/lib/deoclue:/usr/sbin/nologin
angel922@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
angel922@cis106:~$ tail -5 /etc/passwd
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
sssd:x:126:131:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
angel922:x:1000:1000:Angel,,,:/home/angel922:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
 flatpak:x:127:137:<u>F</u>latpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin_
angel922@cis106:~$
```

```
angel922@cis106:~$ cut -d ":" -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
ргоху
www-data
backup
list
irc
gnats
nobody
angel922@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
angel922@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
```

```
angel922@cis106:~$ cut -d ':' --complement -s -f3 /etc/passwd
 root:x:0:root:/root:/bin/bash
daemon:x:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:bin:/bin:/usr/sbin/nologin
sys:x:3:sys:/dev:/usr/sbin/nologin
sync:x:65534:sync:/bin:/bin/sync
games:x:60:games:/usr/games:/usr/sbin/nologin
man:x:12:man:/var/cache/man:/usr/sbin/nologin
 lp:x:7:lp:/var/spool/lpd:/usr/sbin/nologin
 mail:x:8:mail:/var/mail:/usr/sbin/nologin
 news:x:9:news:/var/spool/news:/usr/sbin/nologin
 uucp:x:10:uucp:/var/spool/uucp:/usr/sbin/nologin
 proxy:x:13:proxy:/bin:/usr/sbin/nologin
 www-data:x:33:www-data:/var/www:/usr/sbin/nologin
 backup:x:34:backup:/var/backups:/usr/sbin/nologin
angel922@cts106:-$ curl -s https://cts106.com/assets/shopping.md -o shopping.md angel922@cts106:-$ curl -s https://cts106.com/assets/tasks.md -o tasks.md angel922@cts106:-$ curl -s https://cts106.com/assets/tasks.md -o tasks.md etasks.md lab5-docs lab5-video lab6-q5 list_of_cars names.csv Public shopping.md snap Templates Wallpapers Desktop Downloads lab-5 lab5ChallengeQuestion lab5-ings lab6 list Music Ptctures script.py site.html tasks.md Videos angel922@cts106:-$ paste shopping.md tasks.nd ## Shopping ## Tasks
1. Apples: 1. Do Laundry:
2. Meat: 2. Cook lunch:
3. Bread: 3. Clean room:
angel922@cts106:-$ wc Documents/Books/dracula.txt
15860 164386 B031251 Documents/Books/dracula.txt
15860 164386 B031251 Documents/Books/dracula.txt
angel922@cts106:-$ wc -v Documents/Books/dracula.txt
angel922@cts106:-$ wc -w Documents/Books/dracula.txt
angel922@cts106:-$ sort /etc/passwd
angel922@cts106:-$ sort /etc/passwd
apth:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autolpd:x:109:116:Avahi autolpd daemon.,:/var/lib/avahi-autolpd:/usr/sbin/nologin
bln:x:2:2:bln:/bln:/bur/var/backups:/var/sbin/nologin
bln:x:2:2:bln:/bln:/bur/var/backups:/var/sbin/nologin
colord:x:12:126:colord colour management daemon.,.:/var/lib/colord:/usr/sbin/nologin
colord:x:12:126:colord colour management daemon.,.:/var/lib/colord:/usr/sbin/nologin
angel922@cts106:-$ wc wc pocuments/books/dracula.txt
angel922@cts106:-$ wc wc pocuments/books/dracula.txt
angel922@cts106:-$ sort /etc/passwd
avahi-autolpd:x:109:116:Avahi autolpd daemon.,:/var/lib/colord:/usr/sbin/nologin
colord:x:12:126:colord colour management daemon.,:/var/lib/colord:/usr/sbin/nologin
colord:x:12:126:colord colour management daemon.,:/var/lib/colord:/usr/sbin/nologin
angel922@cts106:-$ wc wc bocuments/books/daevala.txt
angel922@cis106:~

angel922@cis106:~$ ls Documents/Csv/
Cars.csv cereal.csv contacts.csv country.csv film.csv
angel922@cis106:~$ cat Documents/Csv/cereal.csv | tr ';' ','
name, mfr, type, calories, protetin, fat, sodium, fiber, carbo, sugars, potass, vitamins, shelf, weight, cups, rating
Staring, Categorical, Categorical, Int, Int, Int, Int, Float, Float, Int, Int, 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 with Extra Fiber, K, C, 50, 4, 0, 140, 144, 8, 0, 330, 25, 3, 1, 0. 5, 93. 704912
All-ond 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, 133, 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, 99, 3, 0, 210, 5, 13, 5, 190, 25, 3, 1, 0. 67, 53, 313813
Cap'n'Crunch, Q, C, 120, 6, 2, 290, 2, 17, 1, 105, 25, 1, 1, 1, 25, 50. 76499
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, 137, 105, 25, 3, 1, 1, 25, 50. 76499
Cinnamon Toast Crunch, G, 120, 1, 3, 210, 0, 13, 9, 45, 25, 2, 1, 0. 75, 19. 823573
Clusters, 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, 45, 863324
Corn Pakes, K, C, 100, 2, 0, 290, 1, 21, 2, 35, 25, 1, 1, 1, 45, 863324
Corn Pakes, K, C, 100, 2, 0, 290, 1, 21, 2, 35, 25, 1, 1, 1, 45, 863324
    orn Flakes,K,C,100,2,0,290,1,21,2,35,25,1,1,1,45.863324
   that he _may_ fall in love with one of them, and therefore you persuade you at last. I was sure you loved your girls too well to anything. Lydia, my love, though you _are_ the youngest, I dare be fond of dancing was a certain step towards falling in love;
                          first, and was in a way to be very much in love; but she
                         who have heart enough to be really in love without encouragement. secure of him, there will be leisure for falling in love as love, from love to matrimony, in a moment. I knew you would be Well, Jane, make haste and tell us; make haste, my love." a gentleman at my brother Gardiner's in town so much in love with her,
                          "I have been used to consider poetry as the _food_ of love
                                                                                                                                                           re it mav. Everything nourishes what
                                                                           stout. healthy lo
```

```
igel922@cis106:~/Documents/Books$ grep -Ew "love|hate" pride-and-prejudice.txt
that he _may_ fall in love with one of them, and therefore you
anything. Lydia, my love, though you _are_ the youngest, I dare
be fond of dancing was a certain step towards falling in love;
"Come, Darcy," said he, "I must have you dance. I hate to see you
first, and was in a way to be very much in love; but she
who have heart enough to be really in love without encouragement.
secure of him, there will be leisure for falling in love as
love, from love to matrimony, in a moment. I knew you would be
Well, Jane, make haste and tell us; make haste, my love."
a gentleman at my brother Gardiner's in town so much in love with her,
```

```
angel922@cis106:~/Documents/Books$ grep -ni "^love" dracula.txt
2329:loves you honestly, going away and looking all broken-hearted, and to
2412:lover; it's more unselfish anyhow. My dear, I'm going to have a pretty
2443:lover, such a husband, and such a friend.
2528:lovelier than ever, and we drove up to the house at the Crescent in
6083:love her. One, two, three, all open their veins for her, besides one old
6238:love and pride, seen you grow up. Now I want you to make your home here
6268:love me, and he loves me, and I love you with all the moods and tenses
6653:loveliness had come back to her in death, and the hours that had passed,
6837:loveliness. It frightened and amazed me somewhat; and as for Arthur, he
7292:love her. Oh, Madam Mina, by that love, I implore you, help me. It is
8464:lover, but only her physician and her friend. I gave to her my nights
9531:loved and honoured as our host is, everything regarding him is of
10465:love and from the good, good wishes of those other strong men.
```

```
angel922@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 Mustana Boss 302 US
```

```
angel922@cis106:~/Documents/Csv$ awk -F";" '{OFS=" Made in the "}{print $1,$NF}' cars.csv Car Made in the Origin
STRING Made in the CAT
Chevrolet Chevelle Malibu Made in the US
Buick Skylark 320 Made in the US
Plymouth Satellite Made in the US
AMC Rebel SST Made in the US
Ford Torino Made in the US
Ford Galaxie 500 Made in the US
Chevrolet Impala Made in the US
Plymouth Fury iii Made in the US
Pontiac Catalina Made in the US
AMC Ambassador DPL Made in the US
Citroen DS-21 Pallas Made in the Europe
Chevrolet Chevelle Concours (sw) Made in the US
Ford Torino (sw) Made in the US´
Plymouth Satellite (sw) Made in the US
AMC Rebel SST (sw) Made in the US
Dodge Challenger SE Made in the US
Plymouth 'Cuda 340 Made in the US
```

```
l922@cis106:~/Documents/Csv$ awk -F ";" '{print "The", $1,"Has", $3 "cylinders","and is made in"
,$NF}' cars.csv
The Car Has Cylinderscylinders and is made in Origin
The STRING Has INTcylinders and is made in CAT
The Chevrolet Chevelle Malibu Has 8cylinders and is made in US
The Buick Skylark 320 Has 8cylinders and is made in US
The Plymouth Satellite Has 8cylinders and is made in US
The AMC Rebel SST Has 8cylinders and is made in US
The Ford Torino Has 8cylinders and is made in US
The Ford Galaxie 500 Has 8cylinders and is made in US
The Chevrolet Impala Has 8cylinders and is made in US
The Plymouth Fury iii Has 8cylinders and is made in US
The Pontiac Catalina Has 8cylinders and is made in US
The AMC Ambassador DPL Has 8cylinders and is made in US
The Citroen DS-21 Pallas Has Acylinders and is made in Europe
The Chevrolet Chevelle Concours (sw) Has 8cylinders and is made in US
The Ford Torino (sw) Has 8cylinders and is made in US
The Plymouth Satellite (sw) Has 8cylinders and is made in US
angel922@cis106:~/Documents/Csv$ awk -F";" '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
angel922@cis106:~/Documents/Csv$ awk -F: '{print toupper($1)}' cars.csv
CAR; MPG; CYLINDERS; DISPLACEMENT; HORSEPOWER; WEIGHT; ACCELERATION; MODEL; ORIGIN
STRING; DOUBLE; INT; DOUBLE; DOUBLE; DOUBLE; DOUBLE; INT; CAT
CHEVROLET CHEVELLE MALIBU;18.0;8;307.0;130.0;3504.;12.0;70;US
BUICK SKYLARK 320;15.0;8;350.0;165.0;3693.;11.5;70;US
PLYMOUTH SATELLITE; 18.0; 8; 318.0; 150.0; 3436.; 11.0; 70; US
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
    MUSTANC ROSS 302-0-8-302 0-140 0-3353
```

```
angel922@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/' dracula.txt | grep "dracula"
angel922@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/' dracula.txt | grep "Alucard"
                                        <mark>(lucard</mark>, by Bram Stoker
The Project Gutenberg eBook of
Title:
Castle
                  , as there are no maps of this country as yet to compare
town named by Count
                                 d, is a fairly well-known place. I shall enter
Count Alucard had directed me to go to the Golden Krone Hotel, which I was all he knew. When I asked him if he knew Count Alucard, and could
'Count Alucard?" He bowed in a courtly way as he replied:--
'I am Alucard; and I bid you welcome, Mr. Harker, to my house. Come in;
     ard, jumping to his feet, said:--
Alucard, as it may help me to understand. To-night he may talk of
the Turk on his own ground? This was a Alucard indeed! Woe was it
                                                           indeed! Woe was it that
Turk and brought the shame of slavery on them! Was it not this
Hungarian yoke, we of the
                                          blood were amongst their leaders, for
                               as their heart's blood, their brains, and
Szekelys--and the
 zeketys--and the Acucaro as their heart's blood, their brains, and lucard was speaking, there was that in his eyes and in his bearing
Alucard." I suspected him, and determined to test his sincerity. to my own room. The last I saw of Count Alucard was his kissing
                                                            was his kissing his hand
had just been received. It is only a line dated from Castle
                                                       d landed, so I shall look
terrible events at Whitby when Count #
had found in his absence: that the house which
                                                                     had bought was
                                   ucard. He become so small--we ourselves saw
sisters in the castle of
angel922@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:/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

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.

angel922@cis106:~/Documents/Books\$ sed '/^\$/d;G' pride-and-prejudice.txt

```
angel922@cis106:~$ grep -n "/bin/bash" /etc/passwd
:root:x:0:0:root:/root:
46:angel922:x:1000:1000:Angel,,,:/home/angel922:<mark>/bin/</mark>
angel922@cis106:~$ grep -n "/bin/bash" /etc/passwd | wc -l
angel922@cis106:~$ grep -n "/sbin/nologin" /etc/passwd | wc -l
39
angel922@cis106:~$ grep -n "/sbin/nologin" /etc/passwd
::daemon:x:1:1:daemon:/usr/sbin:/usr
 :bin:x:2:2:bin:/bin:/usr
sys:x:3:3:sys:/dev:/usr
games:x:5:60:games:/usr/games:/usr
:man:x:6:12:man:/var/cache/man:/usr
::lp:x:7:7:lp:/var/spool/lpd:/usr
email:x:8:8:mail:/var/mail:/usr
10:news:x:9:9:news:/var/spool/news:/usr/
L1:uucp:x:10:10:uucp:/var/spool/uucp:/usr
2:proxy:x:13:13:proxy:/bin:/usr
3:www-data:x:33:33:www-data:/var/www:/usr
4:backup:x:34:34:backup:/var/backups:/usr
5:list:x:38:38:Mailing List Manager:/var/list:/usr
6:irc:x:39:39:ircd:/var/run/ircd:/usr/
```

angel922@cis106:~/Documents/Csv\$ grep -i "ford" cars.csv | wc -l

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