# LAB 7

```
directories, 0 files
 imon1997@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
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
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nplip: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
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
rimon1997:x:1000:1000:Rimonur Rashid,,,:/home/rimon1997:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
flatpak:x:127:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
mopidy:x:128:29::/va<u>r</u>/lib/mopidy:/usr/sbin/nologin
 imon1997@cis106:~$
             is106:~$ tac /etc/passwd
```

```
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
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:/roo<u>t</u>:/bin/bash
 imon1997@cis106:~$
```

```
rimon1997@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
rimon1997@cis106:~$
```

```
2q1.3
```

```
rimon1997@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
systemd-network
systemd-resolve
systemd-timesync
messagebus
syslog
apt
tss
uuidd
tcpdump
avahi-autoipd
usbmux
rtkit
dnsmasq
cups-pk-helper
speech-dispatcher
avahi
kernoops
saned
nm-openvpn
hplip
whoopsie
colord
geoclue
pulse
gnome-initial-setup
gdm
sssd
rimon1997
systemd-coredump
flatpak
mopidy
rimon1997@cis106:~$
```

```
rimon1997@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 systemd-timesync:/usr/sbin/nologin messagebus:/usr/sbin/nologin syslog:/usr/sbin/nologin apt:/usr/sbin/nologin tss:/bin/false uuidd:/usr/sbin/nologin tcpdump:/usr/sbin/nologin avahi-autoipd:/usr/sbin/nologin usbmux:/usr/sbin/nologin rtkit:/usr/sbin/nologin dnsmasq:/usr/sbin/nologin cups-pk-helper:/usr/sbin/nologin speech-dispatcher:/bin/false avahi:/usr/sbin/nologin kernoops:/usr/sbin/nologin saned:/usr/sbin/nologin nm-openvpn:/usr/sbin/nologin hplip:/bin/false whoopsie:/bin/false colord:/usr/sbin/nologin geoclue:/usr/sbin/nologin pulse:/usr/sbin/nologin gnome-initial-setup:/bin/false gdm:/bin/false sssd:/usr/sbin/nologin rimon1997:/bin/bash systemd-coredump:/usr/sbin/nologin flatpak:/usr/sbin/nologin mopidy:/usr/sbin/nologin rimon1997@cis106:~\$

```
imon1997@cis106:~$ cut -d ":" -f1 --output-delimiter=' => ' /etc/passwd
daemon
bin
sys
sync
games
nan
lρ
mail
news
uucp
ргоху
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
systemd-timesync
nessagebus
syslog
_apt
tss
uuidd
tcpdump
avahi-autoipd
usbmux
rtkit
dnsmasq
cups-pk-helper
speech-dispatcher
avahi
kernoops
saned
nm-openvpn
hplip
whoopsie
colord
geoclue
pulse
gnome-initial-setup
gdm
sssd
rimon1997
systemd-coredump
flatpak
nopidy
```

```
imon1997@cis106:~$ cut -d ' ' --complement -s -f3 /etc/passwd
list:x:38:38:Mailing List
gnats:x:41:41:Gnats Bug-Reporting (admin):/var/lib/gnats:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time
ss:x:106:111:TPM software
avahi-autoipd:x:109:116:Avahi autoip
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for 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
kernoops:x:116:65534:Kernel Oops Daemon,,,:/:/usr/sbin/nologin
nm-openvpn:x:118:124:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologi
nplip:x:119:7:HPLIP system
colord:x:121:126:colord colour daemon,,,:/var/lib/colord:/usr/sbin/nologin
pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
dm:x:125:130:Gnome Display
ssd:x:126:131:SSSD system
imon1997:x:1000:1000:Rimonur Rashid,,,:/home/rimon1997:/bin/bash
systemd-coredump:x:999:999:systemd Core
_flatpak:x:127:137:Flatpak system-wide helper,,,:/nonexistent:/usr/sbin/nologin
imon1997@cis106:~$
```

```
imon1997@cis106:~$ we Documents/Books/Dracula.txt
Command 'we' not found, but can be installed with:
sudo apt install xwpe
rimon1997@cis106:~$ wc Documents/Books/Dracula.txt
wc: Documents/Books/Dracula.txt: No such file or directory
 imon1997@cis106:~$ wc Documents/Books/dracula.txt
15860 164386 881251 Documents/Books/dracula.txt
 imon1997@cis106:~$ wc -l Documents/Books/dracula.txt
15860 Documents/Books/dracula.txt
 imon1997@cis106:~$ wc -w Documents/Books/dracula.txt
164386 Documents/Books/dracula.txt
 imon1997@cis106:~$ sort /etc/passwd
apt:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
avahi:x:115:121:Avahi mDNS daemon,,,:/var/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:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
_flatpak:x:127:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
geoclue:x:122:127::/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:124:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
kernoops:x:116:65534: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:103:106::/nonexistent:/usr/sbin/nologin
mopidy:x:128:29::/var/lib/mopidy:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
nm-openvpn:x:118:124: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:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin
rimon1997:x:1000:1000:Rimonur Rashid,,,:/home/rimon1997:/bin/bash
oot:x:0:0:root:/root:/bin/bash
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin
saned:x:117:123::/var/lib/saned:/usr/sbin/nologin
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:126:131:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
```

```
rimon1997@cis106:~$ cat Documents/Csv/cereal.csv | tr ';' ','
name,mfr,type,calories,protein,fat,sodium,fiber,carbo,sugars,potass,vitamins,shelf,weight,cups,rating
String,Categorical,Categorical,Int,Int,Int,Int,Float,Float,Int,Int,Int,Int,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
```

Darcy, as well as Elizabeth, really **love**d them; and they were imon1997@cis106:~/Documents/Books\$ grep -i "love" pride-and-prejudice.txt 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 lo first, and was in a way to be very much in <a href="love">love</a>; but she who have heart enough to be really in <a href="love">love</a> without encouragement. secure of him, there will be leisure for falling in love as ve, 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," said "Of a fine, stout, healthy love it may. Everything nourishes what dearly love a laugh." bit of fish to be got to-day. Lydia, my love, ring the bell-I His plan did not vary on seeing them. Miss Bennet's lovely face likelihood undo the effects of your loveliness and amiable to your wish of increasing my love by suspense, according to the successful love; for Mrs. Bennet, having dawdled about in the brother is in love with you, and wants him to marry Miss Darcy. much love in Mr. Darcy for herself, she would have ordered her persuade him that, instead of being in love with you, he is very much in love with her friend."

imon1997@cis106:~/Documents/Books\$ grep -Ew "love|hate" pride-and-prejudice.t 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 lo "Come, Darcy," said he, "I must have you dance. I hat 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, ve!" "I have been used to consider poetry as the \_food\_ of love," said "Of a fine, stout, healthy love it may. Everything nourishes what dearly tove a laugh."
"And \_your\_ defect is to hate everybody." bit of fish to be got to-day. Lydia, my love, ring the bell—I I hate such false friends. Why could he not keep on quarreling To find a man agreeable whom one is determined to hate! Do not to your wish of increasing my **love** by suspense, according to the successful **love**; for Mrs. Bennet, having dawdled about in the brother is in **love** with you, and wants him to marry Miss Darcy. in Mr. Darcy for herself, she would have ordered her persuade him that, instead of being in love with you, he is very much in love with her friend." in the lane. But little had she dared to hope that so much love The possibility of Mr. Collins's fancying himself in love with -making relieved them from a great deal of his company. The not. There are few people whom I really love, and still fewer of me; no wonder if they **love** her better. But, whatever may be their one day, "your sister is crossed in **love**, I find. I congratulate in **love** now and then. It is something to think of, and it gives After a week spent in professions of love and schemes of easily falls in **love** with a pretty girl for a few weeks, and when he was violently in **love** with only a few days before." "But that expression of 'violently in love' is so hackneyed, so

was\_ Mr. Bingley's love?"

imon1997@cis106:~/Documents/Books\$ grep -Ew "love|hate" pride-and-prejudice.t 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 lo "Come, Darcy," said he, "I must have you dance. I hat 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, ve!" "I have been used to consider poetry as the \_food\_ of love," said "Of a fine, stout, healthy love it may. Everything nourishes what dearly tove a laugh."
"And \_your\_ defect is to hate everybody." bit of fish to be got to-day. Lydia, my love, ring the bell—I I hate such false friends. Why could he not keep on quarreling To find a man agreeable whom one is determined to hate! Do not to your wish of increasing my **love** by suspense, according to the successful **love**; for Mrs. Bennet, having dawdled about in the brother is in **love** with you, and wants him to marry Miss Darcy. in Mr. Darcy for herself, she would have ordered her persuade him that, instead of being in love with you, he is very much in love with her friend." in the lane. But little had she dared to hope that so much love The possibility of Mr. Collins's fancying himself in love with -making relieved them from a great deal of his company. The not. There are few people whom I really love, and still fewer of me; no wonder if they **love** her better. But, whatever may be their one day, "your sister is crossed in **love**, I find. I congratulate in **love** now and then. It is something to think of, and it gives After a week spent in professions of love and schemes of easily falls in **love** with a pretty girl for a few weeks, and when he was violently in **love** with only a few days before." "But that expression of 'violently in love' is so hackneyed, so

was\_ Mr. Bingley's love?"

imon1997@cis106:~/Documents/Books\$ grep -ni "love" dracula.txt 345:know her is to love her. I long to go through the crowded streets of 990:also that there is a chapel of old times. We Transylvanian nobles f lc97:battlements and casements. I **love** the shade and the shadow, and would 1459:thought and many blushes, her ill-spelt **love**-letter, and writing in my 500:at the lovely view to east and south, and unthinking of and uncaring for .581:"You yourself never loved; you never love!" On this the other women .587:"Yes, I too can love; you yourselves can tell it from the past. Is it .261:to speak more. Oh, Mina, couldn't you guess? I love him. I am blushing 262:as I write, for although I \_think\_ he loves me, he has not told me so in 263:words. But oh, Mina, I love him; I love him; I love him! There, that 317:I could love him in time; and when I shook my head his hands trembled, s you honestly, going away and looking all broken-hearted, and to 344:what I would do if I were a man and wanted to make a girl love me. No, I 2378:began pouring out a perfect torrent of love-making, laying his very 2383:manly fervour that I could have loved him for if I had been free:--2401:"'Yes, there is some one I love, though he has not told me yet that he 2402:even loves me.' I was right to speak to him so frankly, for quite a 412:lover; it's more unselfish anyhow. My dear, I'm going to have a pretty 416:my dear, and a fine fellow, or you could not love him--hasn't spoken 443:lover, such a husband, and such a friend. elier than ever, and we drove up to the house at the Crescent in 2529:which they have rooms. This is a **love**ly place. The little river, the 2618:She is so sweet with old people; I think they all fell in **love** with her wed son. 'He was the only son of his mother, and she was a widow.' 709:belo 772:but what it is I do not yet know. His redeeming quality is a love of 959:her looks; she is a trifle stouter, and her cheeks are a lo 3010:own heart a bit. But, Lord love ye, miss, I ain't afraid of dyin', not a 3546:again. We had a lovely view, and saw the procession nearly all the way. 597:had made my diary a duty I should not open it to-night. We had a lovely 3616:looks, oh, so sweet. If Mr. Holmwood fell in love with her seeing her 3800:to have become as much in love with the spot as I am, and it is hard to 3966:habit--says he loves; and, indeed, I don't wonder that he does. Then she 1023:suffering from a violent brain fever. He wishes me to convey his **lo**v 217:poor dear should have fallen in <mark>love</mark> with any other girl. The idea of 283:except myself, my life, and my trust, and that with these went my love 312:"Oceans of lo 👊 and millions of kisses, and may you soon be in your own 321:together; and I <mark>love</mark> him more than ever. He \_tells\_ me that he <mark>love</mark>s me 322:more, but I doubt that, for at first he told me that he couldn't <mark>love</mark> me 1322.More, but I doubt that, for at first he told me that he couldn't **love** me 1328:"P. S.--Mother sends her <mark>love</mark>. She seems better, poor dear. "P. P. 1620:much be<mark>love</mark>d. That is much, my dear, ever were there that which I do not

imon1997@cis106:~/Documents/Csv\$ awk -F ";" '{print \$1,\$NF}' cars.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 oyota Corolla Mark ii Japan lymouth Duster US MC Hornet US ord Maverick US atsun PL510 Japan olkswagen 1131 Deluxe Sedan Europe eugeot 504 Europe udi 100 LS Europe aab 99e Europe MW 2002 Europe MC Gremlin US ord F250 US hevy C20 US odge D200 US li 1200D US atsun PL510 Japan hevrolet Vega 2300 US ovota Corolla Japan ord Pinto US olkswagen Super Beetle 117 Europe MC Gremlin US lymouth Satellite Custom US hevrolet Chevelle Malibu US ord Torino 500 US MC Matador US hevrolet Impala US ontiac Catalina Brougham US ord Galaxie 500 US imon1997@cis106:~/Documents/Csv\$ awk -F ";" '{OFS="is made on"}{print \$1,\$NF}' cars.csv

rimon1997@cis106:~/Documents/Csv\$ awk -F ";" '{OFS="is made on"}{print \$1,\$NF}' cars.csv
Caris made onOrigin
STRINGis made onCAT
Chevrolet Chevelle Malibuis made onUS
Buick Skylark 320is made onUS
Plymouth Satelliteis made onUS
AMC Rebel SSTis made onUS
Ford Torinois made onUS

Ford Galaxie 500is made onUS Chevrolet Impalais made onUS Plymouth Fury iiiis made onUS Pontiac Catalinais made onUS AMC Ambassador DPLis made onUS Citroen DS-21 Pallasis made onEurope Chevrolet Chevelle Concours (sw)is made onUS Ford Torino (sw)is made onUS Plymouth Satellite (sw)is made onUS AMC Rebel SST (sw)is made onUS Oodge Challenger SEis made onUS Plymouth 'Cuda 340is made onUS Ford Mustang Boss 302is made onUS Chevrolet Monte Carlois made onUS Buick Estate Wagon (sw)is made onUS Toyota Corolla Mark iiis made onJapan Plymouth Dusteris made onUS AMC Hornetis made onUS Ford Maverickis made onUS Datsun PL510is made onJapan /olkswagen 1131 Deluxe Sedanis made onEurope Peugeot 504is made onEurope Audi 100 LSis made onEurope Saab 99eis made onEurope BMW 2002is made onEurope AMC Gremlinis made onUS Ford F250is made onUS Chevy C20is made onUS Dodge D200is made onUS Hi 1200Dis made onUS Datsun PL510is made onJapan Chevrolet Vega 2300is made onUS Toyota Corollais made onJapan Ford Pintois made onUS olkswagen Super Beetle 117is made onEurope

```
<print"The", $1,"has",$3,"cylinders","and is madeon us",$NF}</pre>
The Car has Cylinders cylinders and is madeon us Origin
The STRING has INT cylinders and is madeon us CAT
The Chevrolet Chevelĺe Malibu has 8 cylinders and is madeon us US
The Buick Skylark 320 has 8 cylinders and is madeon us US
The Plymouth Satellite has 8 cylinders and is madeon us US
The AMC Rebel SST has 8 cylinders and is madeon us US
The Ford Torino has 8 cylinders and is madeon us US
The Ford Galaxie 500 has 8 cylinders and is madeon us US
The Chevrolet Impala has 8 cylinders and is madeon us US
The Plymouth Fury iii has 8 cylinders and is madeon us US
The Pontiac Catalina has 8 cylinders and is madeon us US
The AMC Ambassador DPL has 8 cylinders and is madeon us US
The Citroen DS-21 Pallas has 4 cylinders and is madeon us Europe
The Chevrolet Chevelle Concours (sw) has 8 cylinders and is madeon us US
The Ford Torino (sw) has 8 cylinders and is madeon us US
The Plymouth Satellite (sw) has 8 cylinders and is madeon us US
The AMC Rebel SST (sw) has 8 cylinders and is madeon us US
The Dodge Challenger SE has 8 cylinders and is madeon us US
The Plymouth 'Cuda 340 has 8 cylinders and is madeon us US
The Ford Mustang Boss 302 has 8 cylinders and is madeon us US
The Chevrolet Monte Carlo has 8 cylinders and is madeon us US
The Buick Estate Wagon (sw) has 8 cylinders and is madeon us US
The Toyota Corolla Mark ii has 4 cylinders and is madeon us Japan
The Plymouth Duster has 6 cylinders and is madeon us US
The AMC Hornet has 6 cylinders and is madeon us US
The Ford Maverick has 6 cylinders and is madeon us US
The Datsun PL510 has 4 cylinders and is madeon us Japan
The Volkswagen 1131 Deluxe Sedan has 4 cylinders and is madeon us Europe
The Peugeot 504 has 4 cylinders and is madeon us Europe
The Audi 100 LS has 4 cylinders and is madeon us Europe
The Saab 99e has 4 cylinders and is madeon us Europe
The BMW 2002 has 4 cylinders and is madeon us Europe
The AMC Gremlin has 6 cylinders and is madeon us US
The Ford F250 has 8 cylinders and is madeon us US
The Chevy C20 has 8 cylinders and is madeon us US
The Dodge D200 has 8 cylinders and is madeon us US
The Hi 1200D has 8 cylinders and is madeon us US
The Datsun PL510 has 4 cylinders and is madeon us Japan
The Chevrolet Vega 2300 has 4 cylinders and is madeon us US
The Toyota Corolla has 4 cylinders and is madeon us Japan
The Ford Pinto has 4 cylinders and is madeon us US
The Volkswagen Super Beetle 117 has 4 cylinders and is madeon us Europe
The AMC Gremlin has 6 cylinders and is madeon us US
The Plymouth Satellite Custom has 6 cylinders and is madeon us US
The Chevrolet Chevelle Malibu has 6 cylinders and is madeon us US
The Ford Torino 500 has 6 cylinders and is madeon us US
The AMC Matador has 6 cylinders and is madeon us US
The Chevrolet Impala has 8 cylinders and is madeon us US
The Pontiac Catalina Brougham has 8 cylinders and is madeon us US
The Ford Galaxie 500 has 8 cylinders and is madeon us US
The Plymouth Fury iii has 8 cylinders and is madeon us US
The Dodge Monaco (sw) has 8 cylinders and is madeon us US
```

```
rimon1997@cis106:~/Documents/Csv$ awk '{print length ($2)}' cars.csv
0
8
7
46
5
43
```

```
imon1997@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
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
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
```

```
-imon1997@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/' Dracula.txt |grep "Alucard"
sed: can't read Dracula.txt: No such file or directory
 rimon1997@cis106:~/Documents/Books$ sed 's/Dracula/Alucard/' dracula.txt |grep "Alucard"
The Project Gutenberg eBook of Alucard, by Bram Stoker
Title: Alucard
town named by Count Alucard, 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; Alucard, as it may help me to understood.
                  , 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 that Turk and brought the shame of slavery on them! Was it not this Alucard, Hungarian yoke, we of the Alucard blood were amongst their leaders, for Szekelys--and the Alucard as their heart's blood, their brains, and Alucard 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 his hand had just been received. It is only a line dated from Castle Alucard,
terrible events at Whitby when Count Alucard landed, so I shall look had found in his absence: that the house which Alucard had bought was sisters in the castle of Alucard. He become so small--we ourselves saw has been. He must, indeed, have been that Voivode Alucard who won his grave, and are even now arrayed against us. The Alucards were, says
  pokol'--Satan and hell; and in one manuscript this very Aluc
arranged by Alucard. The house looked as though it had been long believe in it. Even my own terrible experiences in Castle Alucar
discover on what boat and whither bound Count Alucard made his escape:--
Alucard we should go by Galatz, or at any rate through Bucharest, so I
marked for one Count Alucard. Sure eneuch the matter was one ready to _Ground of inquiry._--Count Alucard's problem is to get back to his own close to Alucard's castle as can be got by water. over the Borgo, and find our way to the Castle of Alucard. Here, Madam awful work, I laid in Alucard's tomb some of the Wafer, and so banished clear line of Alucard's castle cut the sky; for we were so deep under The Castle of Alucard now stood out against the red sky, and every stone
  imon1997@cis106:~/Documents/Books$
```

```
imon1997@cis106:~/Documents/Books$ sed G /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/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
```

```
rimon1997@cis106:~$ grep -n "/bin/bash" /etc/passwd
1:root:x:0:0:root:/bin/bash
46:rimon1997:x:1000:1000:Rimonur Rashid,,,:/home/rimon1997:/bin/bash
rimon1997@cis106:~$ grep -n "/bin/bash" /etc/passwd | wc -l
2
rimon1997@cis106:~$ 

"imon1997@cis106:~/Documents/Csv$ cd ../Books/
-imon1997@cis106:~/Documents/Books$ grep -n '^....' bible.txt | wc -l
31102
-imon1997@cis106:~/Documents/Books$
```