

Week Report 7

Practice 1

```
hrmartinez@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

hrmartinez@cis106:~$ tac /etc/passwd
_flatpak:x:122:124:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
hrmartinez:x:1000:1000:hrmartinez:/home/hrmartinez:/bin/bash
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:119:65534:./run/gnome-initial-setup:/bin/false
colord:x:118:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
rtkit:x:117:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
polkitd:x:987:987:User for polkitd:/usr/sbin/nologin
gnome-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin
hplip:x:116:7:HPLIP system user,,,:/run/hplip:/bin/false
cups-browsed:x:115:114:./nonexistent:/usr/sbin/nologin

hrmartinez@cis106:~$ cat -nE /etc/passwd
 1 root:x:0:0:root:/root:/bin/bash$
 2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
 3 bin:x:2:2:bin:/bin:/usr/sbin/nologin$
 4 sys:x:3:3:sys:/dev:/usr/sbin/nologin$
 5 sync:x:4:65534:sync:/bin:/bin/sync$
 6 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$
 9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
13 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
```

Practice 2

```
hrmartinez@cis106: ~  
hrmartinez@cis106:~$ cut -d":" -f1 /etc/passwd  
root  
daemon  
bin  
sys  
sync  
games  
man  
lp  
mail  
news  
uucp  
proxy  
www-data  
backup  
list  
irc  
_apt  
nobody  
systemd-network  
systemd-timesync  
dhcpcd  
messagebus  
syslog  
systemd-resolve  
uuidd  
usbmux  
tss  
systemd-oom  
kernoops
```

```
hrmartinez@cis106:~$ cut -d":" -f1,6 /etc/passwd  
root:/root  
daemon:/usr/sbin  
bin:/bin  
sys:/dev  
sync:/bin  
games:/usr/games  
man:/var/cache/man  
lp:/var/spool/lpd  
mail:/var/mail  
news:/var/spool/news  
uucp:/var/spool/uucp  
proxy:/bin  
www-data:/var/www  
backup:/var/backups  
list:/bin
```

```
hrmartinez@cis106:~$ cut -d":" -f1,6,7 --output-delimiter=">" /etc/passwd  
root>/root>/bin/bash  
daemon>/usr/sbin>/usr/sbin/nologin  
bin>/bin>/usr/sbin/nologin  
sys>/dev>/usr/sbin/nologin  
sync>/bin>/bin/sync  
games>/usr/games>/usr/sbin/nologin  
man>/var/cache/man>/usr/sbin/nologin  
lp>/var/spool/lpd>/usr/sbin/nologin  
mail>/var/mail>/usr/sbin/nologin  
news>/var/spool/news>/usr/sbin/nologin  
uucp>/var/spool/uucp>/usr/sbin/nologin
```

```
hrmartinez@cis106:~$ cut -d";" -f1 ~/Documents/Csv/cereal.csv
```

```
name
String
100% Bran
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
```

```
hrmartinez@cis106:~$ cut -d";" -f1,4 --output-delimiter=" calories = " ~/Documents/Csv/cereal.csv
```

```
name calories = calories
String calories = Int
100% Bran calories = 70
100% Natural Bran calories = 120
All-Bran calories = 70
All-Bran with Extra Fiber calories = 50
Almond Delight calories = 110
Apple Cinnamon Cheerios calories = 110
Apple Jacks calories = 110
Basic 4 calories = 130
Bran Chex calories = 90
Bran Flakes calories = 90
Cap'n'Crunch calories = 120
Cheerios calories = 110
Cinnamon Toast Crunch calories = 120
Clusters calories = 110
Cocoa Puffs calories = 110
Corn Chex calories = 110
```

Practice 3

```
hrmartinez@cis106:~$ sort ~/Documents/Csv/cars.csv
AMC Ambassador Brougham;13.0;8;360.0;175.0;3821.;11.0;73;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
AMC Ambassador SST;17.0;8;304.0;150.0;3672.;11.5;72;US
AMC Concord;19.4;6;232.0;90.00;3210.;17.2;78;US
AMC Concord;24.3;4;151.0;90.00;3003.;20.1;80;US
AMC Concord d/l;18.1;6;258.0;120.0;3410.;15.1;78;US
AMC Concord DL;23.0;4;151.0;0;3035.;20.5;82;US
AMC Concord DL 6;20.2;6;232.0;90.00;3265.;18.2;79;US
AMC Gremlin;18.0;6;232.0;100.0;2789.;15.0;73;US
AMC Gremlin;19.0;6;232.0;100.0;2634.;13.0;71;US
```

```
hrmartinez@cis106: ~/Documents/Csv
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;78;Europe
Volvo Diesel;30.7;6;145.0;76.00;3160.;19.6;81;Europe
hrmartinez@cis106:~$ cd ~/Documents/Csv/ && sort -o sorted_cars.csv cars.csv
hrmartinez@cis106:~/Documents/Csv$ wc -l sorted_cars.csv
408 sorted_cars.csv
hrmartinez@cis106:~/Documents/Csv$ wc -m sorted_cars.csv
22663 sorted_cars.csv
hrmartinez@cis106:~/Documents/Csv$ cat sorted_cars.csv | tr ';' ','
AMC Ambassador Brougham,13.0,8,360.0,175.0,3821.,11.0,73,US
AMC Ambassador DPL,15.0,8,390.0,190.0,3850.,8.5,70,US
AMC Ambassador SST,17.0,8,304.0,150.0,3672.,11.5,72,US
AMC Concord,19.4,6,232.0,90.00,3210.,17.2,78,US
AMC Concord,24.3,4,151.0,90.00,3003.,20.1,80,US
AMC Concord d/l,18.1,6,258.0,120.0,3410.,15.1,78,US
AMC Concord DL,23.0,4,151.0,0,3035.,20.5,82,US
AMC Concord DL 6,20.2,6,232.0,90.00,3265.,18.2,79,US
AMC Gremlin,18.0,6,232.0,100.0,2789.,15.0,73,US
AMC Gremlin,19.0,6,232.0,100.0,2634.,13.0,71,US
AMC Gremlin,20.0,6,232.0,100.0,2914.,16.0,75,US
AMC Gremlin,21.0,6,199.0,90.00,2648.,15.0,70,US
AMC Hornet,18.0,6,199.0,97.00,2774.,15.5,70,US
AMC Hornet,18.0,6,232.0,100.0,2945.,16.0,73,US
AMC Hornet,19.0,6,232.0,100.0,2901.,16.0,74,US
AMC Hornet,22.5,6,232.0,90.00,3085.,17.6,76,US
AMC Hornet Sportabout (sw),18.0,6,258.0,110.0,2962.,13.5,71,US
AMC Matador,14.0,8,304.0,150.0,3672.,11.5,73,US
AMC Matador,15.0,6,258.0,110.0,3730.,19.0,75,US
AMC Matador,15.5,8,304.0,120.0,3962.,13.9,76,US
AMC Matador,16.0,6,258.0,110.0,3632.,18.0,74,US
AMC Matador,18.0,6,232.0,100.0,3288.,15.5,71,US
```

Practice 4

```
hrmartinez@cis106:~/Documents/Books$ grep -in "love" pride-and-prejudice.txt
71:by allowance" and "loving with personal love." This distinction applies
75:to their best work than in the case of those others who are loved "by
77:proper thing to love them. And in the sect--fairly large and yet
125:All the minor passages--the loves of Jane and Bingley, the advent of Mr.
138:aversion to actual love. I do not know whether the all-grasping hand of
368:his falling in love at all is not extremely probable. Here again I
380:injured in disposition, and thoroughly in love. As for his being in
381:love, Elizabeth has given as just an exposition of the causes of that
433:anybody who can read between lines will not find the lovers'
442:ladies with whom it might be a pleasure to fall in love; there are at
446:Grant. I should have been most in love with Beatrix and Argemone; I
547:"So much love and eloquence" 156
728:_may_ fall in love with one of them, and therefore you must visit him as
893:persuade you at last. I was sure you loved your girls too well to
905:for your sakes we would do anything. Lydia, my love, though you _are_
944:dancing was a certain step towards falling in love; and very lively
1387:way to be very much in love; but she considered with pleasure that it
1402:very few of us who have heart enough to be really in love without
1422:in love as much as she chooses."
1629:imagination is very rapid; it jumps from admiration to love, from love
```

```
hrmartinez@cis106: ~/Documents/Books
hrmartinez@cis106:~/Documents/Books$ grep -ic "love" pride-and-prejudice.txt
131
hrmartinez@cis106:~/Documents/Books$ grep -ivc "love" pride-and-prejudice.txt
14402
hrmartinez@cis106:~/Documents/Books$ grep -io "love" pride-and-prejudice.txt | wc -l
135
hrmartinez@cis106:~/Documents/Books$ grep -i "^dracula" dracula.txt
DRACULA
Dracula, jumping to his feet, said:--
Dracula, as it may help me to understand. To-night he may talk of
Dracula was speaking, there was that in his eyes and in his bearing
Dracula." I suspected him, and determined to test his sincerity.
Dracula we should go by Galatz, or at any rate through Bucharest, so I
hrmartinez@cis106:~/Documents/Books$ grep -Ec "bash|zsh|fish" /etc/passwd
2
hrmartinez@cis106:~/Documents/Books$ grep -Ecvc "bash|zsh|fish" /etc/passwd
48
hrmartinez@cis106:~/Documents/Books$
```