

# Week Report 8

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## Practice 5

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1: phernandez@cis106: ~ ▾  
phernandez@cis106:~$ awk -F: '{print $1}' /etc/passwd  
root  
daemon  
bin  
sys  
sync  
games  
man  
lp  
mail  
news  
uucp  
proxy  
www-data  
backup  
list  
irc  
gnats  
nobody  
systemd-network  
systemd-resolve  
messagebus  
systemd-timesync  
syslog  
_apt  
tss  
uudd  
systemd-oom  
tcpdump  
avahi-autoipd  
usbmux  
1: phernandez@cis106: ~ ▾  
phernandez@cis106:~$ awk -F: '{print $1,$NF}' /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  
messagebus /usr/sbin/nologin  
systemd-timesync /usr/sbin/nologin  
syslog /usr/sbin/nologin  
_apt /usr/sbin/nologin  
tss /bin/false
```

```
1: phernandez@cis106: ~ ▾
phernandez@cis106:~$ awk -F: '{print toupper($1)}' /etc/passwd
ROOT
DAEMON
BIN
SYS
SYNC
GAMES
MAN
LP
MAIL
NEWS
UUCP
PROXY
WWW-DATA
BACKUP
LIST
IRC
GNATS
NOBODY
SYSTEMD-NETWORK
SYSTEMD-RESOLVE
MESSAGEBUS

phernandez@cis106:~$ grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s", "User", "LOGIN Shell" } {print $1, "\t", $7}'
User      LOGIN Shellroot      /bin/bash
phernandez /bin/bash
phernandez@cis106:~$ grep "/bin/bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s", "User", "LOGIN Shell" } {print toupper($1), "\t", $7}'
User      LOGIN ShellROOT      /bin/bash
PHERNANDEZ /bin/bash
phernandez@cis106:~$
```

## Practice 6

```

1: phernandez@cis106: ~/Documents/Csv
phernandez@cis106:~$ cd Documents/Csv/
phernandez@cis106:~/Documents/Csv$ grep -i 'honda' cars.csv | sed 's/Honda/tesla/g'
tesla Civic;24.0;4;120.0;97.00;2489.;15.0;74;Japan
tesla Civic CVCC;33.0;4;91.00;53.00;1795.;17.5;75;Japan
tesla Civic;33.0;4;91.00;53.00;1795.;17.4;76;Japan
tesla Accord CVCC;31.5;4;98.00;68.00;2045.;18.5;77;Japan
tesla Civic CVCC;36.1;4;91.00;60.00;1800.;16.4;78;Japan
tesla Accord LX;29.5;4;98.00;68.00;2135.;16.6;78;Japan
tesla Civic 1500 gl;44.6;4;91.00;67.00;1850.;13.8;80;Japan
tesla Accord;32.4;4;107.0;72.00;2290.;17.0;80;Japan
tesla Civic 1300;35.1;4;81.00;60.00;1760.;16.1;81;Japan
tesla Prelude;33.7;4;107.0;75.00;2210.;14.4;81;Japan
tesla Accord;36.0;4;107.0;75.00;2205.;14.5;82;Japan
tesla Civic;38.0;4;91.00;67.00;1965.;15.0;82;Japan
tesla Civic (auto);32.0;4;91.00;67.00;1965.;15.7;82;Japan
phernandez@cis106:~/Documents/Csv$ grep -i 'honda' cars.csv | sed '1,3 s/Honda/tesla/g'
tesla Civic;24.0;4;120.0;97.00;2489.;15.0;74;Japan
tesla Civic CVCC;33.0;4;91.00;53.00;1795.;17.5;75;Japan
tesla Civic;33.0;4;91.00;53.00;1795.;17.4;76;Japan
Honda Accord CVCC;31.5;4;98.00;68.00;2045.;18.5;77;Japan
Honda Civic CVCC;36.1;4;91.00;60.00;1800.;16.4;78;Japan
Honda Accord LX;29.5;4;98.00;68.00;2135.;16.6;78;Japan
Honda Civic 1500 gl;44.6;4;91.00;67.00;1850.;13.8;80;Japan
Honda Accord;32.4;4;107.0;72.00;2290.;17.0;80;Japan
Honda Civic 1300;35.1;4;81.00;60.00;1760.;16.1;81;Japan
Honda Prelude;33.7;4;107.0;75.00;2210.;14.4;81;Japan
Honda Accord;36.0;4;107.0;75.00;2205.;14.5;82;Japan
Honda Civic;38.0;4;91.00;67.00;1965.;15.0;82;Japan
Honda Civic (auto);32.0;4;91.00;67.00;1965.;15.7;82;Japan
phernandez@cis106:~/Documents/Csv$ sed 'Honda/d' cars.csv
sed: -e expression #1, char 2: extra characters after command
phernandez@cis106:~/Documents/Csv$ sed '/Honda/d' 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

phernandez@cis106:~/Documents/Csv$ grep -i 'honda civic' cars.csv | sed G
Honda Civic;24.0;4;120.0;97.00;2489.;15.0;74;Japan

Honda Civic CVCC;33.0;4;91.00;53.00;1795.;17.5;75;Japan

Honda Civic;33.0;4;91.00;53.00;1795.;17.4;76;Japan

Honda Civic CVCC;36.1;4;91.00;60.00;1800.;16.4;78;Japan

Honda Civic 1500 gl;44.6;4;91.00;67.00;1850.;13.8;80;Japan

Honda Civic 1300;35.1;4;81.00;60.00;1760.;16.1;81;Japan

Honda Civic;38.0;4;91.00;67.00;1965.;15.0;82;Japan

Honda Civic (auto);32.0;4;91.00;67.00;1965.;15.7;82;Japan

phernandez@cis106:~/Documents/Csv$ █

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## Practice 7

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1: phernandez@cis106: ~/Documents/Csv ~  
phernandez@cis106:~/Documents/Csv$ awk 'NR > 3 {print}' cars.csv | sort > cars-no-header.csv  
phernandez@cis106:~/Documents/Csv$ cat cars-no-header.csv | tr ';' ',' |awk -F, '{print $1,$NF}'  
AMC Ambassador Brougham US  
AMC Ambassador DPL US  
AMC Ambassador SST US  
AMC Concord US  
AMC Concord US  
AMC Concord d/l US  
AMC Concord DL US  
AMC Concord DL 6 US  
AMC Gremlin US  
AMC Gremlin US  
AMC Gremlin US  
AMC Gremlin US  
AMC Hornet US  
AMC Hornet US  
AMC Hornet US  
AMC Hornet US  
AMC Hornet Sportabout (sw) US  
AMC Matador US  
AMC Matador US  
AMC Matador US  
AMC Matador US  
AMC Matador US  
AMC Matador (sw) US  
AMC Matador (sw) US  
AMC Pacer US  
AMC Pacer d/l US  
AMC Rebel SST US  
AMC Rebel SST (sw) US  
AMC Gremlin US  
phernandez@cis106:~/Documents/Csv$ cat cars-no-header.csv | tr ';' ',' |awk -F, '{print $1}' > cars-brands.csv  
phernandez@cis106:~/Documents/Csv$ grep ";US" cars.csv | awk -F ';' '{print $1}' |sort > americanCars.csv  
phernandez@cis106:~/Documents/Csv$ grep ";Japan" cars.csv | awk -F ';' '{print $1}' | sort >> americanCars.csv  
>  
> grep ";Japan" cars.csv | awk -F ';' '{print $1}' | sort >> americanCars.csv  
awk: line 1: syntax error at or near |  
{print: command not found  
phernandez@cis106:~/Documents/Csv$ grep ";Japan" cars.csv | awk -F ';' '{print $1}' | sort >> americanCars.csv  
phernandez@cis106:~/Documents/Csv$ cat americanCars.csv  
AMC Ambassador Brougham  
AMC Ambassador DPL  
AMC Ambassador SST  
AMC Concord  
AMC Concord  
AMC Concord d/l  
AMC Concord DL  
AMC Concord DL 6  
AMC Gremlin  
AMC Gremlin  
AMC Gremlin  
AMC Gremlin  
AMC Hornet  
AMC Hornet  
AMC Hornet  
AMC Hornet  
AMC Hornet Sportabout (sw)
```