

Notes 6

Notes

Practice 5

Practice 5.1

```
aluna1740@ironhide:~$ 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
dnsmasq
```

Practice 5.2

```
aluna1740@ironhide:~$ awk -F':' '{print $1,$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
messagebus /usr/sbin/nologin
systemd-timesync /usr/sbin/nologin
syslog /usr/sbin/nologin
_apt /usr/sbin/nologin
tss /bin/false
uidd /usr/sbin/nologin
systemd-oom /usr/sbin/nologin
tcpdump /usr/sbin/nologin
avahi-autoipd /usr/sbin/nologin
usbmux /usr/sbin/nologin
dnsmasq /usr/sbin/nologin
kernoops /usr/sbin/nologin
avahi /usr/sbin/nologin
cups-pk-helper /usr/sbin/nologin
rtkit /usr/sbin/nologin
whoopsie /bin/false
```

Practice 5.3-5

```
aluna1740@ironhide:~$ 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
SYSTEMD-TIMESYNC
SYSLOG
_APT
TSS
UIDDD
SYSTEMD-OOM
TCPDUMP
AVAHI-AUTOIPD
USBMUX
DNSSMASQ
KERNPOPS
AVAHI
```

```
aluna1740@ironhide:~$ grep "bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s\n", "User", "Shell" } {print $1, "\t", $7}'
User      Shell
root      /bin/bash
aluna1740  /bin/bash
aluna1740@ironhide:~$ grep "bash" /etc/passwd | awk -F: 'BEGIN { printf "%s\t%s\n", "User", "Shell" } {print toupper($1), "\t", $7}'
User      Shell
ROOT      /bin/bash
ALUNA1740  /bin/bash
aluna1740@ironhide:~$
```

Practice 6

Practice 6.1-4

```
aluna1740@ironhide:~/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
aluna1740@ironhide:~/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
aluna1740@ironhide:~/Documents/Csv$ grep -i 'honda' cars.csv | sed '/Honda/d'
aluna1740@ironhide:~/Documents/Csv$ sed '/Honda/d' cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
STRING;DOUBLE;INT;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
```

Practice 6.5

```
aluna1740@ironhide:~/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

aluna1740@ironhide:~/Documents/Csv$
```

Practice 7

Practice 7.1

```
aluna1740@ironhide:~/Documents/Csv$ awk 'NR > 3 {print}' cars.csv | sort > cars-no-header.csv
aluna1740@ironhide:~/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
```

Practice 7.2

```
aluna1740@ironhide:~/Documents/Csv$ cat cars-no-header.csv | tr ';' ' ' | awk -F, '{print $1}' > cars-brands.csv
aluna1740@ironhide:~/Documents/Csv$ cat cars-brands.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)
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador (sw)
AMC Matador (sw)
AMC Pacer
AMC Pacer d/l
AMC Rebel SST
AMC Rebel SST (sw)
```

Practice 7.3

```
aluna1740@ironhide:~/Documents/Csv$ grep ";US" cars.csv | awk -F ';' '{print $1}' | sort > AmericanCars.csv
aluna1740@ironhide:~/Documents/Csv$ 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)
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador (sw)
AMC Matador (sw)
AMC Pacer
```

Practice 7.4

```
aluna1740@ironhide:~/Documents/Csv$ grep ";Japan" cars.csv | awk -F ';' '{print $1}' | sort >> AmericanCars.csv
aluna1740@ironhide:~/Documents/Csv$ 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)
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador
AMC Matador (sw)
AMC Matador (sw)
```