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Question 1

```
ccwallace2@cis106:~/cis106/labs/lab8$ cat files_report.txt
All files in my home directory
files_report.txt
files_report.txt
all.log, allmyfiles.txt, all.txt, .ansi_codes.sh, .bash_aliases, .bash_history,
.bash_logout, .bashrc, bashscript.sh, .cache, challenge-Lab6, cis106, .config,
Desktop, Documents, .dotnet, Downloads, error.log, error.txt, .gitconfig,
github_cheat_sheet.txt, .gnupg, --help, ipaddress.txt, lab4files, Lab-5,
lab5-audio, lab5ChallengeQuestion, lab5-docs, lab5-imgs, lab5-video, lab6,
lab6-q5, .lesshst, .local, .mozilla, Music, output.txt, Pictures, .pki,
practicels, practicels.tar.xz, practicemkdir, .profile, Public,
script_env_var.sh, scripts, script.sh, snap, .ssh, students.csv, success.log,
.sudo_as_admin_successful, Templates, testdumb.txt, .textFiles, .textFiles.sh,
.thunderbird, .vboxclient-clipboard-tty2-control.pid,
.vboxclient-clipboard-tty2-service.pid,
.vboxclient-draganddrop-tty2-control.pid,
.vboxclient-draganddrop-tty2-service.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, website
ccwallace2@cis106:~/cis106/labs/lab8$ _
```

Question 2

```
ccwallace2@cis106:~/cis106/labs/lab8$ tail files_report.txt
.vboxclient-draganddrop-tty2-control.pid,
.vboxclient-draganddrop-tty2-service.pid,
.vboxclient-hostversion-tty2-control.pid, .vboxclient-seamless-tty2-control.pid,
.vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control.pid,
.vboxclient-vmsvga-session-tty2-service.pid, Videos, .vscode, website
Total number of files in my home directory
71
Total number of directories in my home directory
34
ccwallace2@cis106:~/cis106/labs/lab8$ _
```

Question 3

```
ccwallace2@cis106:~/cis106/labs/lab8$ awk -F":" '{print $1,$NF,$6}' /etc/passwd
root /bin/bash /root
daemon /usr/sbin/nologin /usr/sbin
bin /usr/sbin/nologin /bin
sys /usr/sbin/nologin /dev
sync /bin/sync /bin
games /usr/sbin/nologin /usr/games
man /usr/sbin/nologin /var/cache/man
lp /usr/sbin/nologin /var/spool/lpd
mail /usr/sbin/nologin /var/mail
news /usr/sbin/nologin /var/spool/news
uucp /usr/sbin/nologin /var/spool/uucp
proxy /usr/sbin/nologin /bin
www-data /usr/sbin/nologin /var/www
backup /usr/sbin/nologin /var/backups
list /usr/sbin/nologin /var/list
irc /usr/sbin/nologin /run/ircd
gnats /usr/sbin/nologin /var/lib/gnats
nobody /usr/sbin/nologin /nonexistent
systemd-network /usr/sbin/nologin /run/systemd
systemd-resolve /usr/sbin/nologin /run/systemd
messagebus /usr/sbin/nologin /nonexistent
systemd-timesync /usr/sbin/nologin /run/systemd
syslog /usr/sbin/nologin /home/syslog
_apt /usr/sbin/nologin /nonexistent
tss /bin/false /var/lib/tpm
uuidd /usr/sbin/nologin /run/uuidd
systemd-oom /usr/sbin/nologin /run/systemd
tcpdump /usr/sbin/nologin /nonexistent
avahi-autoipd /usr/sbin/nologin /var/lib/avahi-autoipd
usbmux /usr/sbin/nologin /var/lib/usbmux
dnsmasq /usr/sbin/nologin /var/lib/misc
kernoops /usr/sbin/nologin /
avahi /usr/sbin/nologin /run/avahi-daemon
cups-pk-helper /usr/sbin/nologin /home/cups-pk-helper
rtkit /usr/sbin/nologin /proc
whoopsie /bin/false /nonexistent
sssd /usr/sbin/nologin /var/lib/sss
speech-dispatcher /bin/false /run/speech-dispatcher
fwupd-refresh /usr/sbin/nologin /run/systemd
nm-openvpn /usr/sbin/nologin /var/lib/openvpn/chroot
saned /usr/sbin/nologin /var/lib/saned
colord /usr/sbin/nologin /var/lib/colord
geoclue /usr/sbin/nologin /var/lib/geoclue
pulse /usr/sbin/nologin /run/pulse
gnome-initial-setup /bin/false /run/gnome-initial-setup/
hplip /bin/false /run/hplip
gdm /bin/false /var/lib/gdm3
ccwallace2 /bin/bash /home/ccwallace2
vboxadd /bin/false /var/run/vboxadd
_flatpak /usr/sbin/nologin /nonexistent
```

```
ccwallace2@cis106:~/cis106/labs/lab8$ awk -F":" '{print "The user " $1,$NF,"and its home dir is: "$6}' /etc/passwd
The user root /bin/bash and its home dir is: /root
The user daemon /usr/sbin/nologin and its home dir is: /usr/sbin
The user bin /usr/sbin/nologin and its home dir is: /bin
The user sys /usr/sbin/nologin and its home dir is: /dev
The user sync /bin/sync and its home dir is: /bin
The user games /usr/sbin/nologin and its home dir is: /usr/games
The user man /usr/sbin/nologin and its home dir is: /var/cache/man
The user lp /usr/sbin/nologin and its home dir is: /var/spool/lpd
The user mail /usr/sbin/nologin and its home dir is: /var/mail
The user news /usr/sbin/nologin and its home dir is: /var/spool/news
The user uucp /usr/sbin/nologin and its home dir is: /var/spool/uucp
The user proxy /usr/sbin/nologin and its home dir is: /bin
The user www-data /usr/sbin/nologin and its home dir is: /var/www
The user backup /usr/sbin/nologin and its home dir is: /var/backups
The user list /usr/sbin/nologin and its home dir is: /var/list
The user irc /usr/sbin/nologin and its home dir is: /run/ircd
```

```
nm-openvpn = /usr/sbin/nologin
saned = /usr/sbin/nologin
colord = /usr/sbin/nologin
geoclue = /usr/sbin/nologin
pulse = /usr/sbin/nologin
gnome-initial-setup = /bin/false
hplip = /bin/false
gdm = /bin/false
ccwallace2 = /bin/bash
vboxadd = /bin/false
_flatpak = /usr/sbin/nologin
lightdm = /bin/false
ccwallace2@cis106:~/cis106/labs/lab8$ awk -F":" '{print $1" = "$NF}' /etc/passwd | grep "/bin/bash" >> report_user.txt
ccwallace2@cis106:~/cis106/labs/lab8$ _
```

```
The user usbmux /usr/sbin/nologin and its home dir is: /var/lib/usbmux
The user dnsmasq /usr/sbin/nologin and its home dir is: /var/lib/misc
The user kernoops /usr/sbin/nologin and its home dir is: /
The user avahi /usr/sbin/nologin and its home dir is: /run/avahi-daemon
The user cups-pk-helper /usr/sbin/nologin and its home dir is: /home/cups-pk-helper
The user rtkit /usr/sbin/nologin and its home dir is: /proc
The user whoopsie /bin/false and its home dir is: /nonexistent
The user sssd /usr/sbin/nologin and its home dir is: /var/lib/sss
The user speech-dispatcher /bin/false and its home dir is: /run/speech-dispatcher
The user fwupd-refresh /usr/sbin/nologin and its home dir is: /run/systemd
The user nm-openvpn /usr/sbin/nologin and its home dir is: /var/lib/openvpn/chroot
The user saned /usr/sbin/nologin and its home dir is: /var/lib/saned
The user colord /usr/sbin/nologin and its home dir is: /var/lib/colord
The user geoclue /usr/sbin/nologin and its home dir is: /var/lib/geoclue
The user pulse /usr/sbin/nologin and its home dir is: /run/pulse
The user gnome-initial-setup /bin/false and its home dir is: /run/gnome-initial-setup/
The user hplip /bin/false and its home dir is: /run/hplip
The user gdm /bin/false and its home dir is: /var/lib/gdm3
The user ccwallace2 /bin/bash and its home dir is: /home/ccwallace2
The user vboxadd /bin/false and its home dir is: /var/run/vboxadd
The user _flatpak /usr/sbin/nologin and its home dir is: /nonexistent
The user lightdm /bin/false and its home dir is: /var/lib/lightdm
root = /bin/bash
ccwallace2 = /bin/bash
ccwallace2@cis106:~/cis106/labs/lab8$ _
```

```
2: ccwallace2@cis106: ~  v
```

Question 4

```
ccwallace2@cis106:~/cis106/labs/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv > honda1.csv
ccwallace2@cis106:~/cis106/labs/lab8$ head -1 ~/Documents/Csv/cars.csv > honda1.csv
ccwallace2@cis106:~/cis106/labs/lab8$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
ccwallace2@cis106:~/cis106/labs/lab8$ grep -i "honda" ~/Documents/Csv/cars.csv >> honda1.csv
ccwallace2@cis106:~/cis106/labs/lab8$ cat honda1.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
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 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
ccwallace2@cis106:~/cis106/labs/lab8$ _
```

```
ccwallace2@cis106:~/cis106/labs/lab8$ awk -F"," 'NR > 1 {print $1","$3","$5}' honda2.csv | sed 's/Honda  /Honda_/g' >> honda3.csv
ccwallace2@cis106:~/cis106/labs/lab8$ cat honda3.csv
model,cylinder,hp
,  , Civic:24.0:4:120.0:97.00:2489.:15.0:74:Japan
,  , Civic CVCC:33.0:4:91.00:53.00:1795.:17.5:75:Japan
,  , Civic:33.0:4:91.00:53.00:1795.:17.4:76:Japan
,  , Accord CVCC:31.5:4:98.00:68.00:2045.:18.5:77:Japan
,  , Civic CVCC:36.1:4:91.00:60.00:1800.:16.4:78:Japan
,  , Accord LX:29.5:4:98.00:68.00:2135.:16.6:78:Japan
,  , Civic 1500 gl:44.6:4:91.00:67.00:1850.:13.8:80:Japan
,  , Accord:32.4:4:107.0:72.00:2290.:17.0:80:Japan
,  , Civic 1300:35.1:4:81.00:60.00:1760.:16.1:81:Japan
,  , Prelude:33.7:4:107.0:75.00:2210.:14.4:81:Japan
,  , Accord:36.0:4:107.0:75.00:2205.:14.5:82:Japan
,  , Civic:38.0:4:91.00:67.00:1965.:15.0:82:Japan
,  , Civic (auto):32.0:4:91.00:67.00:1965.:15.7:82:Japan
ccwallace2@cis106:~/cis106/labs/lab8$ _
```