

Lab 6

Question 1

```
1: mig@cis106: ~/lab6/q1
2: mig@cis106: ~

mig@cis106:~$ curl https://cis106.com/assets/lab6/lab6.sh | bash
% Total % Received % Xferd Average Speed Time Time Time Current
100 471 100 471 0 0 1589 0 --:--:-- --:--:-- --:--:-- 1585

mig@cis106:~$ cd lab6/
mig@cis106:~/lab6$ ls
q1 q2 q3
mig@cis106:~/lab6$ cd q1
mig@cis106:~/lab6/q1$ ls
access.log app.cfg ftp.log game.cfg ssh.log zebra.cnf
apache.log error.log fuse.conf simple.cnf sudo.conf
mig@cis106:~/lab6/q1$ ls * .log
ls: cannot access '.log': No such file or directory
access.log app.cfg ftp.log game.cfg ssh.log zebra.cnf
apache.log error.log fuse.conf simple.cnf sudo.conf
mig@cis106:~/lab6/q1$ ls *.log
access.log apache.log error.log ftp.log ssh.log
mig@cis106:~/lab6/q1$ mkdir ../log-files
mig@cis106:~/lab6/q1$ mv *.log ../log-files/
mig@cis106:~/lab6/q1$

mig@cis106:~$ ls -l lab6/q1/*.c*
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/app.cfg
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/fuse.conf
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/game.cfg
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/simple.cnf
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/sudo.conf
-rw-rw-r-- 1 0 Apr 10 13:28 lab6/q1/zebra.cnf
mig@cis106:~$ ls -lGhs lab6/q1/*.c*
0 lab6/q1/app.cfg
0 lab6/q1/fuse.conf
0 lab6/q1/game.cfg
0 lab6/q1/simple.cnf
0 lab6/q1/sudo.conf
0 lab6/q1/zebra.cnf
mig@cis106:~$ ls -lGhs --time-style=%D lab6/q1/*.c*
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/app.cfg
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/fuse.conf
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/game.cfg
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/simple.cnf
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/sudo.conf
0 -rw-rw-r-- 1 0 04/10/25 lab6/q1/zebra.cnf
mig@cis106:~$
```

Question 2

```
1: mig@cis106: ~
2: mig@cis106: ~
3: mig@cis106: ~

mig@cis106:~$ cd
mig@cis106:~$ mkdir lab6/hidden-files/
mig@cis106:~$ ls lab6/q2/.*
lab6/q2/.code lab6/q2/.helper lab6/q2/.index lab6/q2/.unit_test
mig@cis106:~$ rm lab6/q2/*.*
mig@cis106:~$ ls lab6/q2/T*.*
lab6/q2/Trip_doc.docx lab6/q2/Trip_doc.pptx lab6/q2/Trip_doc.xlsx
mig@cis106:~$ rm lab6/q2/T*.*
mig@cis106:~$ ls lab6/q2/[lr][aeiou]*[0-9].*
lab6/q2/rest_0.txt lab6/q2/rest_1.txt lab6/q2/rust_0.txt lab6/q2/rust_1.txt
mig@cis106:~$ ls lab6/q2/[lr][aeiou]*[0-9].*

lab6/q2/last_0.txt lab6/q2/last_2.txt lab6/q2/list_0.txt lab6/q2/list_2.txt lab6/q2/lo
st_0.txt lab6/q2/lost_2.txt lab6/q2/rest_0.txt lab6/q2/rust_0.txt
lab6/q2/last_1.txt lab6/q2/last_3.txt lab6/q2/list_1.txt lab6/q2/list_3.txt lab6/q2/lo
st_1.txt lab6/q2/lost_3.txt lab6/q2/rest_1.txt lab6/q2/rust_1.txt
mig@cis106:~$ mkdir lab6/random
mig@cis106:~$ mv lab6/q2/[lr][aeiou]*[0-9].* lab6/random/
mig@cis106:~$ ls lab6/random/
last_0.txt last_2.txt list_0.txt list_2.txt lost_0.txt lost_2.txt rest_0.txt rust_0
.txt
last_1.txt last_3.txt list_1.txt list_3.txt lost_1.txt lost_3.txt rest_1.txt rust_1
.txt
mig@cis106:~$

mig@cis106:~$ tree -a lab6/hidden-files/
lab6/hidden-files/
├── .code
├── .helper
├── .index
└── .unit_test

5 directories, 0 files
mig@cis106:~$ ls lab6/q2/
code.go list_0.txt rest_1.txt
code.js list_1.txt rust_0.txt
code.py list_2.txt rust_1.txt
code.rb list_3.txt Trip_doc.docx
code.sh lost_0.txt Trip_doc.pptx
last_0.txt lost_1.txt Trip_doc.vsd
last_1.txt lost_2.txt Trip_doc.xlsx
last_2.txt lost_3.txt
last_3.txt rest_0.txt
mig@cis106:~$

mig@cis106:~$ tree lab6/q2/
lab6/q2/
├── code.go
├── code.js
├── code.py
├── code.rb
├── code.sh
├── last_0.txt
├── last_1.txt
├── last_2.txt
├── last_3.txt
├── list_0.txt
├── list_1.txt
├── list_2.txt
├── list_3.txt
├── lost_0.txt
├── lost_1.txt
├── lost_2.txt
├── lost_3.txt
├── rest_0.txt
├── rest_1.txt
├── rest_2.txt
├── rust_0.txt
├── rust_1.txt
├── Trip_doc.docx
├── Trip_doc.pptx
├── Trip_doc.vsd
└── Trip_doc.xlsx

1 directory, 25 files
mig@cis106:~$
```

Question 3

```

mig@cis106:~$ cd lab6/
mig@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
mig@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
└── 5 directories, 0 files
mig@cis106:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
mig@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
└── 7 directories, 0 files
mig@cis106:~/lab6$ cd -
mig@cis106:~$ tree ~/lab6/q3
/home/mig/lab6/q3
├── _file0.old
├── _file1.old
├── _file2.old
└── 1 directory, 3 files
mig@cis106:~$ touch ~/lab6/q3/{program.py,people.csv,data.xls}
mig@cis106:~$ tree ~/lab6/q3
/home/mig/lab6/q3
├── data.xls
├── _file0.old
├── _file1.old
├── _file2.old
├── people.csv
└── program.py

```

```

mig@cis106:~$ cd lab6/
mig@cis106:~/lab6$ mkdir -p docs/books/{history/{fall,spring},math/{2024,2025}}
mig@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── 2024
│       └── 2025
└── 8 directories, 0 files
mig@cis106:~/lab6$ touch docs/books/history/fall/book.pdf
mig@cis106:~/lab6$ touch docs/books/history/spring/book.pdf
mig@cis106:~/lab6$ touch docs/books/math/2024/book.pdf
mig@cis106:~/lab6$ touch docs/books/math/2025/book.pdf
mig@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── 2024
│       │   └── book.pdf
│       └── 2025
│           └── book.pdf
└── 8 directories, 4 files
mig@cis106:~/lab6$

```

Question 3.2

1 directory, 3 files

```

mig@cis106:~$ touch ~/lab6/q3/{program.py,people.csv,data.xls}

```

```

mig@cis106:~$ tree ~/lab6/q3

```

```

/home/mig/lab6/q3

```

```

├── data.xls
├── _file0.old
├── _file1.old
├── _file2.old
├── people.csv
└── program.py

```

1 directory, 6 files

```

mig@cis106:~$ rm ~/lab6/q3/{_file0.old,_file1.old,_file2.old}

```

```

mig@cis106:~$ tree ~/lab6/q3

```

```

/home/mig/lab6/q3

```

```

├── data.xls
├── people.csv
└── program.py

```

1 directory, 3_files

Challenge Question

