

File Globing/Wildcards

Question 1

```

maybs248@cis106:~$ curl https://cis106.com/assets/lab6.sh | bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
  0     0     0     0     0     0      0      0      0      0      0      0      0    1375
 0 100% 100% 1379
maybs248@cis106:~$ ls /etc/*.conf
/etc/adduser.conf      /etc/host.conf        /etc/pam.conf
/etc/apg.conf          /etc/inxi.conf        /etc/pnm2ppa.conf
/etc/appstream.conf    /etc/kernel-img.conf  /etc/popularity-contest.conf
/etc/brltty.conf       /etc/kernelloops.conf /etc/resolv.conf
/etc/ca-certificates.conf /etc/ld.so.conf       /etc/rsyslog.conf
/etc/debconf.conf      /etc/libao.conf       /etc/rygel.conf
/etc/deluser.conf      /etc/libaudit.conf    /etc/sensors3.conf
/etc/e2scrub.conf      /etc/logrotate.conf   /etc/sysctl.conf
/etc/fprintd.conf      /etc/ltrace.conf      /etc/ucf.conf
/etc/fuse.conf         /etc/mke2fs.conf      /etc/usb_modeswitch.conf
/etc/gai.conf          /etc/mtools.conf      /etc/xattr.conf
/etc/hdparm.conf       /etc/nsswitch.conf

maybs248@cis106:~$ ls -lgHs --time-style=+%D /etc/h*.conf /etc/p*.conf
-rw-r--r-- 1 7.5K 02/23/22 /etc/pnm2ppa.conf
-rw-r--r-- 1 5.0K 08/21/19 /etc/hdparm.conf
-rw-r--r-- 1 552 12/17/19 /etc/pam.conf
-rw-rw-r-- 1 350 03/01/22 /etc/popularity-contest.conf
-rw-r--r-- 1 92 12/05/19 /etc/host.conf

maybs248@cis106:~$ ls /usr/share/themes/*/*.theme -R
/usr/share/themes/Adwaita-dark/index.theme /usr/share/themes/Yaru-dark/index.theme
/usr/share/themes/Adwaita/index.theme      /usr/share/themes/Yaru/index.theme
/usr/share/themes/HighContrast/index.theme /usr/share/themes/Yaru-light/index.theme

maybs248@cis106:~$ ls lab6/*.log
lab6/88_Application-log.log  lab6/fontconfig.log  lab6/unattended-upgrades-dpkg.log
lab6/alternatives.log       lab6/gpu-manager.log lab6/unattended-upgrades.log
lab6/apache01-error.log     lab6/history.log     lab6/unattended-upgrades-shutdown.log
lab6/apache22.log           lab6/http404.log     lab6/vboxadd-install.log
lab6/auth.log               lab6/kern.log         lab6/vboxadd-setup.log
lab6/bootstrap.log          lab6/make.log
lab6/dpkg.log               lab6/term.log

maybs248@cis106:~$ mkdir lab6/log-files
maybs248@cis106:~$ mv lab6/*.log lab6/log-files/
maybs248@cis106:~$

```

Question 2

```

maybs248@cis106:~$ ls -A lab6/.*?
lab6/.appveyor.yml    lab6/.gitconfig      lab6/.nycrc
lab6/.auto-changelog  lab6/.gitignore      lab6/.obsolete
lab6/.bash_history    lab6/.gitkeep        lab6/.padding
lab6/.bash_logout     lab6/.gitmodules     lab6/.parentlock
lab6/.bashrc          lab6/.hidden         lab6/.prettierrignore
lab6/.changed         lab6/.htaccess       lab6/.prettierrc.yaml
lab6/.cis106.png      lab6/.istanbul.yml   lab6/.profile
lab6/.coveralls.yml   lab6/.jscs.json      lab6/.sudo_as_admin_successful
lab6/.dir-locals.el   lab6/.jscsrc         lab6/.tern-project
lab6/.editorconfig    lab6/.jshintignore    lab6/.tm_properties
lab6/.envrc           lab6/.jshintrc       lab6/.tonic_example.js
lab6/.eslintignore    lab6/.keep           lab6/.travis.yml
lab6/.eslintrc        lab6/.last revision  lab6/.vboxclient-clipboard.pid
lab6/.eslintrc.js     lab6/.metadata-v2    lab6/.vboxclient-display-svg-x11.pid
lab6/.eslintrc.json   lab6/.meta.isrunning lab6/.vboxclient-draganddrop.pid
lab6/.eslintrc.yml    lab6/.min-wd         lab6/.vboxclient-seamless.pid
lab6/.gitattributes   lab6/.npmignore      lab6/.vsixmanifest
maybs248@cis106:~$ ls -A lab6/*.??
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh
lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
maybs248@cis106:~$ ls -A lab6/l?*st*
lab6/last.txt lab6/list.txt lab6/lost.txt
maybs248@cis106:~$ ls -A lab6/*_??*
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh
lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
maybs248@cis106:~$

```

Question 3

```

maybs248@cis106:~$ ls lab6/[A-Z]*
lab6/Document.doc lab6/Expenses.xls
maybs248@cis106:~$ ls lab6/[A-Z0-9]*
lab6/25Games.lst lab6/Document.doc lab6/Expenses.xls
maybs248@cis106:~$ ls lab6/*[0-9]*
lab6/25Games.lst lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh lab6/trip22-info.doc
lab6/apache03.err lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
maybs248@cis106:~$ ls lab6/[a-z][0-9]*
ls: cannot access 'lab6/[a-z][0-9]*': No such file or directory
maybs248@cis106:~$ ls lab6/[a-z]*[0-9]*
lab6/apache03.err lab6/file_01.sh lab6/file_03.sh lab6/file_05.sh
lab6/file_00.sh lab6/file_02.sh lab6/file_04.sh lab6/trip22-info.doc
maybs248@cis106:~$

```

Question 4

```

maybs248@cis106:~$ cd lab6/
maybs248@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
maybs248@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
4 directories, 0 files
maybs248@cis106:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
maybs248@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
6 directories, 0 files
maybs248@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
maybs248@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── fall
│       └── spring
7 directories, 0 files
maybs248@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
maybs248@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
7 directories, 4 files
maybs248@cis106:~/lab6$

```

```

maybs248@cis106:~/lab6$ mkdir -p books/{books/{math,science}/{epub,pdf},magazines/{computers,running,videogames}/{fanmade,official}}
maybs248@cis106:~/lab6$ tree books/
books/
├── books
│   ├── math
│   │   ├── epub
│   │   └── pdf
│   └── science
│       ├── epub
│       └── pdf
└── magazines
    ├── computers
    │   ├── fanmade
    │   └── official
    ├── running
    │   ├── fanmade
    │   └── official
    └── videogames
        ├── fanmade
        └── official
17 directories, 0 files

```

Question 5

```

maybs248@cis106:~/lab6$ cd
maybs248@cis106:~$ mkdir lab6-q5
maybs248@cis106:~$ cd /
maybs248@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
maybs248@cis106:/$ cd /usr/share
maybs248@cis106:/usr/share$ mkdir ~/lab6-q5/movies
maybs248@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disney.doc}
maybs248@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv}/{marvel.txt,disney.doc}
rm: cannot remove '/home/maybs248/lab6-q5/program.py/marvel.txt': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/program.py/disney.doc': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/people.csv/marvel.txt': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/people.csv/disney.doc': Not a directory
maybs248@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv}/{marvel.txt,disney.doc}}
rm: cannot remove '/home/maybs248/lab6-q5/program.py/marvel.txt}': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/program.py/disney.doc}': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/people.csv/marvel.txt}': Not a directory
rm: cannot remove '/home/maybs248/lab6-q5/people.csv/disney.doc}': Not a directory
maybs248@cis106:/usr/share$ rm ~/lab6-q5/{program.py,people.csv}
maybs248@cis106:/usr/share$ rm ~/lab6-q5/movies/{disney.doc,marvel.txt}
maybs248@cis106:/usr/share$

```

Challenge

```

maybs248@cis106:/usr/share$ cd
maybs248@cis106:~$ curl https://cis106.com/assets/lab6cq.sh | bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  170    100   170    0     0    502      0  --:--:-- --:--:-- --:--:--   502
maybs248@cis106:~$ cd challenge-Lab6/
maybs248@cis106:~/challenge-Lab6$ mkdir -p challenge-lab6/{audio/{aac,mp3},docs/{docx,pdf,xls},
images/{jpg,png}}
maybs248@cis106:~/challenge-Lab6$ tree challenge-lab6/
challenge-lab6/
├── audio
│   ├── aac
│   └── mp3
├── docs
│   ├── docx
│   ├── pdf
│   └── xls
└── images
    ├── jpg
    └── png

10 directories, 0 files

```

```

maybs248@cis106:~/challenge-Lab6$ cd
maybs248@cis106:~$ ls -A challenge-Lab6/*.aac
challenge-Lab6/song1.aac  challenge-Lab6/song2.aac  challenge-Lab6/song3.aac
maybs248@cis106:~$ ls -A challenge-Lab6/*.mp3
challenge-Lab6/song1.mp3  challenge-Lab6/song2.mp3  challenge-Lab6/song3.mp3
maybs248@cis106:~$ ls -A challenge-Lab6/*.docx
challenge-Lab6/docs1.docx  challenge-Lab6/docs2.docx  challenge-Lab6/docs3.docx
maybs248@cis106:~$ ls -A challenge-Lab6/*.pdf
challenge-Lab6/docs1.pdf  challenge-Lab6/docs2.pdf  challenge-Lab6/docs3.pdf
maybs248@cis106:~$ ls -A challenge-Lab6/*.xls
ls: cannot access 'challenge-Lab6/*.xls': No such file or directory
maybs248@cis106:~$ ls -A challenge-Lab6/*.jpg
challenge-Lab6/image1.jpg  challenge-Lab6/image2.jpg  challenge-Lab6/image3.jpg
maybs248@cis106:~$ ls -A challenge-Lab6/*.png
challenge-Lab6/image1.png  challenge-Lab6/image2.png  challenge-Lab6/image3.png
maybs248@cis106:~$ mv challenge-Lab6/*.aac challenge-Lab6/challenge-lab6/audio/aac/
maybs248@cis106:~$ mv challenge-Lab6/*.mp3 challenge-Lab6/challenge-lab6/audio/mp3/

```



```

maybs248@cis106:~$ mv challenge-Lab6/*.docx ls challenge-Lab6/challenge-lab6/docs/docx
mv: cannot stat 'ls': No such file or directory
maybs248@cis106:~$ mv challenge-Lab6/*.docx challenge-Lab6/challenge-lab6/docs/docx
mv: cannot stat 'challenge-Lab6/*.docx': No such file or directory
maybs248@cis106:~$ mv challenge-Lab6/*.docx challenge-Lab6/challenge-lab6/docs/docx
mv: cannot stat 'challenge-Lab6/*.docx': No such file or directory
maybs248@cis106:~$ mv challenge-Lab6/*.jpg challenge-Lab6/challenge-lab6/images/jpg
maybs248@cis106:~$ mv challenge-Lab6/*.png challenge-Lab6/challenge-lab6/images/png
maybs248@cis106:~$ ls -A challenge-Lab6/*.pdf
challenge-Lab6/docs1.pdf challenge-Lab6/docs2.pdf challenge-Lab6/docs3.pdf
maybs248@cis106:~$ mv challenge-Lab6/*.pdf challenge-Lab6/challenge-lab6/docs/pdf
maybs248@cis106:~$

```

```

maybs248@cis106:~$ ls -A challenge-Lab6/*.doc
challenge-Lab6/docs1.doc challenge-Lab6/docs2.doc challenge-Lab6/docs3.doc
maybs248@cis106:~$ mv challenge-Lab6/*.doc challenge-Lab6/challenge-lab6/docs/docx
maybs248@cis106:~$ ls -A challenge-Lab6/*.gif
challenge-Lab6/image1.gif challenge-Lab6/image2.gif challenge-Lab6/image3.gif
maybs248@cis106:~$ mv challenge-Lab6/*.gif challenge-Lab6/challenge-lab6/images/jpg

```

```

maybs248@cis106:~/challenge-Lab6$ mkdir challenge-lab6/docs/languages
maybs248@cis106:~/challenge-Lab6$ cd
maybs248@cis106:~$ mv challenge-Lab6/*.py challenge-Lab6/docs/languages
mv: cannot move 'challenge-Lab6/programs.py' to 'challenge-Lab6/docs/languages': No such file or directory
maybs248@cis106:~$ mv challenge-Lab6/*.py challenge-Lab6/challenge-lab6/docs/languages/
maybs248@cis106:~$ mv challenge-Lab6/*.rb challenge-Lab6/challenge-lab6/docs/languages/
maybs248@cis106:~$ mv challenge-Lab6/*.sh challenge-Lab6/challenge-lab6/docs/languages/
maybs248@cis106:~$ mv challenge-Lab6/*.go challenge-Lab6/challenge-lab6/docs/languages/
maybs248@cis106:~$ tree challenge-Lab6/

```

```

challenge-Lab6/
├── challenge-lab6
│   ├── audio
│   │   ├── aac
│   │   │   ├── song1.aac
│   │   │   ├── song2.aac
│   │   │   └── song3.aac
│   │   └── mp3
│   │       ├── song1.mp3
│   │       ├── song2.mp3
│   │       └── song3.mp3
│   ├── docs
│   │   ├── docx
│   │   │   ├── docs1.doc
│   │   │   ├── docs1.docx
│   │   │   ├── docs2.doc
│   │   │   ├── docs2.docx
│   │   │   ├── docs3.doc
│   │   │   └── docs3.docx
│   │   ├── languages
│   │   │   ├── programs.go
│   │   │   ├── programs.py
│   │   │   ├── programs.rb
│   │   │   └── programs.sh
│   │   ├── pdf
│   │   │   ├── docs1.pdf
│   │   │   ├── docs2.pdf
│   │   │   └── docs3.pdf
│   │   └── xls
│   ├── images
│   │   ├── jpg
│   │   │   ├── image1.gif
│   │   │   ├── image1.jpg
│   │   │   ├── image2.gif
│   │   │   ├── image2.jpg
│   │   │   ├── image3.gif
│   │   │   └── image3.jpg
│   │   └── png
│   │       ├── image1.png
│   │       ├── image2.png
│   │       └── image3.png

```