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Course: Spring 2022

Lab 6 File Globbing/Wildcards

Question 1

```

dkrana@cis106:~$ curl https://cis106.com/assets/lab6.sh | bash
% Total    % Received % Xferd  Average Speed   Time    Time     Current
           Dload  Upload   Total     Spent    Left     Speed
100  425  100  425    0    0  2456      0 --:--:-- --:--:-- --:--:-- 2456
dkrana@cis106:~$ ls /etc/*.conf
/etc/adduser.conf          /etc/e2scrub.conf      /etc/kernel-img.conf    /etc/mke2fs.conf        /etc/rsyslog.conf
/etc/appg.conf             /etc/fprintd.conf     /etc/kernelloops.conf   /etc/mtools.conf        /etc/rygel.conf
/etc/appstream.conf       /etc/fuse.conf         /etc/ld.so.conf          /etc/nsswitch.conf      /etc/sensors3.conf
/etc/brltty.conf          /etc/gai.conf          /etc/libao.conf          /etc/pam.conf            /etc/sysctl.conf
/etc/ca-certificates.conf /etc/hdparm.conf       /etc/libaudit.conf       /etc/pnm2ppa.conf       /etc/ucf.conf
/etc/debconf.conf         /etc/host.conf         /etc/logrotate.conf     /etc/popularity-contest.conf /etc/usb_modeswitch.conf
/etc/deluser.conf         /etc/inxi.conf         /etc/ltrace.conf        /etc/resolv.conf         /etc/xattr.conf
dkrana@cis106:~$ ls -lgSh --time-style=+%D /etc/h*.conf /etc/p*.conf
-rw-r--r-- 1 7.5K 08/19/21 /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 02/16/22 /etc/popularity-contest.conf
-rw-r--r-- 1 92 12/05/19 /etc/host.conf
dkrana@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
dkrana@cis106:~$ cd lab6/
dkrana@cis106:~/lab6$ ls *.log
88_Application-log.log  auth.log          gpu-manager.log  make.log          unattended-upgrades-shutdown.log

alternatives.log  bootstrap.log  history.log  term.log
apache01-error.log  dpkg.log      http404.log  unattended-upgrades-dpkg.log
apache22.log       fontconfig.log  kern.log     unattended-upgrades.log
dkrana@cis106:~/lab6$ cd
dkrana@cis106:~$ mkdir lab6/log-files
dkrana@cis106:~$ mv lab6/*.log lab6/log.files/
mv: target 'lab6/log.files/' is not a directory
dkrana@cis106:~$ mv lab6/*.log lab6/log-files/
dkrana@cis106:~$

```

Question 2

```

dkrana@cis106:~$ ls -A lab6/.*?
lab6/.appveyor.yml      lab6/.eslinttrc.json  lab6/.keep          lab6/.profile
lab6/.auto-changelog    lab6/.eslinttrc.yml   lab6/.last_revision lab6/.sudo_as_admin_successful
lab6/.bash_history      lab6/.gitattributes   lab6/.lock          lab6/.tern-project
lab6/.bash_logout       lab6/.gitconfig       lab6/.~lock.LJS.odp# lab6/.tm_properties
lab6/.bashrc            lab6/.gitignore       lab6/.metadata-v2   lab6/.tonic_example.js
lab6/.changed           lab6/.gitkeep         lab6/.meta.isrunning lab6/.travis.yml
lab6/.cis106.png        lab6/.gitmodules     lab6/.min-wd        lab6/.vboxclient-clipboard.pid
lab6/.coveralls.yml     lab6/.hidden         lab6/.npmignore     lab6/.vboxclient-display-svga-x11.pid
lab6/.dir-locals.el     lab6/.htaccess       lab6/.nycrc         lab6/.vboxclient-draganddrop.pid
lab6/.editorconfig      lab6/.istanbul.yml    lab6/.obsolete      lab6/.vboxclient-seamless.pid
lab6/.envrc            lab6/.jscs.json       lab6/.org.chromium.Chromium.2DYJZ4 lab6/.vsixmanifest
lab6/.eslintignore      lab6/.jscsrc          lab6/.parentlock    lab6/.vsixmanifest
lab6/.eslinttrc         lab6/.jshintignore    lab6/.prettierrc    lab6/.prettierrc.yaml
lab6/.eslinttrc.js      lab6/.jshinttrc       lab6/.prettierrc    lab6/.prettierrc.yaml
dkrana@cis106:~$

```

```

dkrana@cis106:~$ ls -A lab6/*.??
lab6/file_00.sh lab6/file_01.sh lab6/file_02.sh lab6/file_03.sh lab6/file_04.sh lab6/file_05.sh
dkrana@cis106:~$ ls -A lab6/l?st*
lab6/last.txt lab6/list.txt lab6/lost.txt
dkrana@cis106:~$ ls -A lab6/*_* *.*??
exa.zip lab6/file_00.sh lab6/file_01.sh lab6/file_02.sh lab6/file_03.sh lab6/file_04.sh lab6/file_05.sh
dkrana@cis106:~$

```

Question 3

```

dkrana@cis106:~$ ls lab6/[A-Z]*
lab6/Document.doc lab6/Expenses.xls
dkrana@cis106:~$ ls lab6/[A-Z0-9]*
lab6/25Games.lst lab6/Document.doc lab6/Expenses.xls
dkrana@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
dkrana@cis106:~$ ls lab6/[a-z]*[0-9]* *.*??
exa.zip 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
dkrana@cis106:~$

```

Question 4

```

dkrana@cis106:~$ cd lab6/
dkrana@cis106:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
dkrana@cis106:~/lab6$ tree wallpapers/
wallpapers/
├── cars
│   ├── 1080p
│   ├── 2k
│   └── 4k
4 directories, 0 files
dkrana@cis106:~/lab6$

```

```

dkrana@cis106:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
dkrana@cis106:~/lab6$ tree assets/
assets/
├── imgs
│   ├── large
│   └── small
└── video
    ├── large
    └── small
6 directories, 0 files
dkrana@cis106:~/lab6$

```

```

dkrana@cis106:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
dkrana@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   └── spring
│   └── math
│       ├── fall
│       └── spring
7 directories, 0 files

```

```
dkrana@cis106:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
dkrana@cis106:~/lab6$ tree docs/
docs/
├── books
│   ├── history
│   │   ├── fall
│   │   │   └── book.pdf
│   │   └── spring
│   │       └── book.pdf
│   └── math
│       ├── fall
│       │   └── book.pdf
│       └── spring
│           └── book.pdf
7 directories, 4 files
dkrana@cis106:~/lab6$
```

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

Question 5

```
dkrana@cis106:~$ mkdir lab6-q5
dkrana@cis106:~$ cd /
dkrana@cis106:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
dkrana@cis106:/$ tree ~/lab6-q5/
/home/dkrana/lab6-q5/
├── data.xls
├── people.csv
└── program.py
0 directories, 3 files
dkrana@cis106:/$ cd usr/share/
dkrana@cis106:/usr/share$ mkdir ~/lab6-q5/movies
dkrana@cis106:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,movie.txt,disney.doc}
```

```
dkrana@cis106:/usr/share$ rm ~/lab6-q5/program.py ~/lab6-q5/movies/{people.csv,disney.doc,movie.txt}
rm: cannot remove '/home/dkrana/lab6-q5/program.py': No such file or directory
rm: cannot remove '/home/dkrana/lab6-q5/movies/people.csv': No such file or directory
dkrana@cis106:/usr/share$ ls ~/lab6-q5/movies
movies.lst
dkrana@cis106:/usr/share$
```

Challenge Question

```
dkrana@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   1188      0  --:--:-- --:--:-- --:--:--   1188
dkrana@cis106:~$ mkdir -p challenge-Lab6/{audio/{aac,mp3},docs/{docx,pdf,xls},images/{jpg,png}}/
dkrana@cis106:~$ mv challenge-Lab6/*.aac challenge-Lab6/audio/aac
dkrana@cis106:~$ mv challenge-Lab6/*.mp3 challenge-Lab6/audio/mp3
dkrana@cis106:~$ mv challenge-Lab6/*.docx challenge-Lab6/docs/docx
dkrana@cis106:~$ mv challenge-Lab6/*.pdf challenge-Lab6/docs/pdf
dkrana@cis106:~$ mv challenge-Lab6/*.jpg challenge-Lab6/images/jpg
dkrana@cis106:~$ mv challenge-Lab6/*.png challenge-Lab6/images/png
dkrana@cis106:~$ mv challenge-Lab6/*.doc challenge-Lab6/docs
dkrana@cis106:~$ mv challenge-Lab6/*.gif challenge-Lab6/images
dkrana@cis106:~$ tree challenge-Lab6/
```

```
challenge-Lab6/
├── audio
│   ├── aac
│   │   ├── song1.aac
│   │   ├── song2.aac
│   │   └── song3.aac
│   └── mp3
│       ├── song1.mp3
│       ├── song2.mp3
│       └── song3.mp3
├── docs
│   ├── docs1.doc
│   ├── docs2.doc
│   ├── docs3.doc
│   ├── docx
│   │   ├── docs1.docx
│   │   ├── docs2.docx
│   │   └── docs3.docx
│   ├── pdf
│   │   ├── docs1.pdf
│   │   ├── docs2.pdf
│   │   └── docs3.pdf
│   └── xls
```

```
├── images
│   ├── image1.gif
│   ├── image2.gif
│   ├── image3.gif
│   ├── jpg
│   │   ├── image1.jpg
│   │   ├── image2.jpg
│   │   └── image3.jpg
│   └── png
│       ├── image1.png
│       ├── image2.png
│       └── image3.png
├── programs.go
├── programs.py
├── programs.rb
└── programs.sh

10 directories, 28 files
dkrana@cis106:~$
```