Question 1 | Using the * Wildcard

```
etc/apg.conf
etc/appstream.conf
                   /etc/e2scrub.conf
/etc/fprintd.conf
                                 /etc/inxi.conf
                                                 /etc/logrotate.conf
/etc/ltrace.conf
                                                                 /etc/pnm2ppa.conf
                                                                                       /etc/sysctl.conf
/etc/ucf.conf
                                                                 /etc/popularity-contest.conf
'etc/brltty.conf
'etc/ca-certificates.conf
                  /etc/fuse.conf
/etc/gai.conf
                                 /etc/kerneloops.conf
/etc/ld.so.conf
                                                 /etc/mke2fs.conf
/etc/mtools.conf
                                                                 /etc/resolv.conf
/etc/rsyslog.conf
                                                                                       /etc/usb_modeswitch.conf
/etc/xattr.conf
etc/debconf.conf /etc/hdparm.conf /etc/libao.conf
|<mark>on@dono:-$ ls -lgGhSt --time-style=+%D /etc/h*.conf /etc/p*.conf</mark>
  goons:-$ is -igGnSt --ilme-style=+8D /etc/n*.conf /e
-r--r-- 1 350 02/18/22 /etc/popularity-contest.conf
-r--r-- 1 7.5K 08/19/21 /etc/pnm2ppa.conf
-r--r-- 1 552 12/17/19 /etc/pam.conf
-r--r-- 1 92 12/05/19 /etc/host.conf
   r--r-- 1 5.0K 08/21/19 /etc/hdparm.conf
 on@dono:/usr/share$ ls -A themes/.3
themes/.:
don@dono:~$ ls lab6/*.log
lab6/88 Application-log.log
                                             lab6/history.log
lab6/alternatives.log
                                             lab6/http404.log
lab6/apache01-error.log
                                             lab6/kern.log
lab6/apache22.log
                                             lab6/make.log
lab6/auth.log
                                             lab6/report.log
lab6/bootstrap.log
                                             lab6/term.log
lab6/dpkg.log
                                             lab6/unattended-upgrades-dpkg.log
lab6/fontconfig.log
                                             lab6/unattended-upgrades.log
lab6/gpu-manager.log
                                             lab6/unattended-upgrades-shutdown.log
don@dono:~$ mkdir lab6/log-files
don@dono:~$ mv lab6/*.log lab6/log-files/
don@dono:~$ ls lab6/
25Games.lst
                     Expenses.xls
                                           file 02.sh
                                                              file 05.sh
                                                                                 log-files
                    file 00.sh
                                           file 03.sh
                                                              last.txt
                                                                                 lost.txt
apache03.err
Document.doc file 01.sh
                                           file 04.sh
                                                                                 trip22-info.doc
                                                              list.txt
don@dono:~$ ls lab6/log-files/
88 Application-log.log history.log
alternatives.log
                                     http404.log
apache01-error.log
                                     kern.log
apache22.log
                                     make.log
auth.log
                                     report.log
bootstrap.log
                                     term.log
dpkg.log
                                     unattended-upgrades-dpkg.log
fontconfig.log
                                     unattended-upgrades.log
gpu-manager.log
                                     unattended-upgrades-shutdown.log
don@dono:~$
```

Question 2 | Using the? wildcard

don@dono:~\$ ls lab6/.??* lab6/.appveyor.yml lab6/.jshintignore lab6/.auto-changelog lab6/.jshintrc lab6/.bash history lab6/.keep lab6/.bash_logout lab6/.last revision lab6/.bashrc lab6/.metadata-v2 lab6/.changed lab6/.meta.isrunning lab6/.min-wd lab6/.cis106.png lab6/.coveralls.yml lab6/.npmignore lab6/.dir-locals.el lab6/.nycrc lab6/.editorconfig lab6/.padding lab6/.envrc lab6/.parentlock lab6/.eslintignore lab6/.prettierignore lab6/.eslintrc lab6/.prettierrc.yaml lab6/.profile lab6/.eslintrc.js lab6/.eslintrc.json lab6/.startup-incomplete lab6/.eslintrc.yml lab6/.sudo as admin successful lab6/.gitattributes lab6/.tern-project lab6/.gitconfig lab6/.tm properties lab6/.gitignore lab6/.tonic example.js lab6/.gitkeep lab6/.travis.yml lab6/.gitmodules lab6/.vboxclient-clipboard.pid lab6/.hidden lab6/.vboxclient-display-svga-x11.pid lab6/.vboxclient-draganddrop.pid lab6/.htaccess lab6/.vboxclient-seamless.pid lab6/.istanbul.yml lab6/.jscs.json lab6/.vsixmanifest lab6/.jscsrc don@dono:~\$ don@dono:~\$ ls -A lab6/ file 02.sh 25Games.lst .metadata-v2

apache03.err file_03.sh .meta.isrunning .appveyor.yml file 04.sh .min-wd .auto-changelog file 05.sh .npmignore .gitattributes .bash_history .nycrc .bash_logout .gitconfig .padding .bashrc .gitignore .parentlock .gitkeep .changed .prettierignore .cis106.png .gitmodules .prettierrc.yaml .coveralls.yml .hidden .profile .dir-locals.el .startup-incomplete .htaccess .sudo_as_admin_successful Document.doc .istanbul.yml .tern-project .editorconfig .jscs.json .tm properties .envrc .jscsrc .tonic_example.js .eslintignore .jshintignore .travis.yml .eslintrc .jshintrc .eslintrc.js trip22-info.doc .keep .vboxclient-clipboard.pid .eslintrc.json .last revision .eslintrc.yml last.txt .vboxclient-display-svga-x11.pid .vboxclient-draganddrop.pid Expenses.xls list.txt

```
Tile 00.sn
               log-Tiles
                               .vboxclient-seamless.pld
file 01.sh
               lost.txt
                               .vsixmanifest
don@dono:~$ 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
don@dono:~$
don@dono:~$ 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
don@dono:~$ ls -A lab6/*.l?*.st
ls: cannot access 'lab6/*.l?*.st': No such file or directory
don@dono:~$ ls -A lab6/*.l?st
ls: cannot access 'lab6/*.l?st': No such file or directory
don@dono:~$ ls -A lab6/*.l?
ls: cannot access 'lab6/*.l?': No such file or directory
don@dono:~$ ls -A lab6/.l?*
lab6/.last revision
don@dono:~$ .l?st*
.l?st*: command not found
don@dono:~$ ls -A lab6/.lst?
ls: cannot access 'lab6/.lst?': No such file or directory
don@dono:~$ ls -A lab6/.l?st
ls: cannot access 'lab6/.l?st': No such file or directory
don@dono:~$ ls -A lab6/.l?st*
lab6/.last revision
don@dono:~$
don@dono:~$ ls -A lab6/.?? *
lab6/.tm properties
don@dono:~$
```

Question 3 | Using the [] Wildcard

```
don@dono:~$ ls lab6/[A-Z]*
lab6/Document.doc lab6/Expenses.xls
don@dono:~$ ls lab6/[A-Z0-9]*
lab6/25Games.lst lab6/Document.doc
                                     lab6/Expenses.xls
don@dono:~$ ls lab6/*[0-9]*
lab6/25Games.lst lab6/file 01.sh
                                    lab6/file 04.sh
lab6/apache03.err lab6/file 02.sh
                                    lab6/file 05.sh
lab6/file 00.sh lab6/file 03.sh
                                    lab6/trip22-info.doc
don@dono:~$
don@dono:~/lab6$ ls *[a-z]*[0-9]*
apache03.err file 01.sh file 03.sh
                                   file 05.sh
             file 02.sh file 04.sh
file 00.sh
                                   trip22-info.doc
don@dono:~/lab6$
```

Question 4 | Using brace expansion

```
don@dono:~/lab6$ mkdir -p wallpapers/cars/{1080p,2k,4k}
don@dono:~/lab6$ tree wallpapers/
wallpapers/
└─ cars
    -- 1080p
      – 2k
     ___ 4k
4 directories, 0 files
don@dono:~/lab6$
don@dono:~/lab6$ mkdir -p assets/{imgs,video}/{large,small}
don@dono:~/lab6$ tree assets/
assets/
 — imgs
    - large
    ___ small
   video
    -- large
     — small
6 directories, 0 files
don@dono:~/lab6$
```

```
don@dono:~/lab6$ mkdir -p docs/books/{history,math}/{fall,spring}
don@dono:~/lab6$ tree docs/
docs/
└─ books
    history
        — fall
         — spring
      - math
         — fall
        ___ spring
7 directories, 0 files
don@dono:~/lab6$ touch docs/books/{history,math}/{fall,spring}/book.pdf
don@dono:~/lab6$ tree docs/
docs/
└─ books
    history
         — fall
            └─ book.pdf
           - spring
            └─ book.pdf
      - math
          - fall
            └─ book.pdf
            spring
            └─ book.pdf
7 directories, 4 files
don@dono:~/lab6$
don@dono:~/lab6$ mkdir -p research/{books/{math,science}/{ephub,pdf},mag
azines/{computers,running,videogames}/{fanmade,official}}/
don@dono:~/lab6$ tree research/
research/
   books
     — math
        ephub pdf
       science
        ___ pdf
  - magazines
      computers
         — fanmade
        ___ official

    fanmade

        ___ official

    videogames

        fanmade
         — official
17 directories, 0 files
don@dono:~/lab6$
```

```
don@dono:~$ mkdir lab6-q5
don@dono:~$ cd /
don@dono:/$ touch ~/lab6-q5/{program.py,people.csv,data.xls}
don@dono:/$ tree ~/lab6-q5/
/home/don/lab6-q5/
 — data.xls
  - people.csv
 program.py
0 directories, 3 files
don@dono:/$ cd usr/share/
don@dono:/usr/share$ mkdir ~/lab6-q5/movies
don@dono:/usr/share$ touch ~/lab6-q5/movies/{movies.lst,marvel.txt,disne
y.doc}
don@dono:/usr/share$ rm ~/lab6-q5/{program.py,people.csv} ~/lab6-q5/movi
es/{disney.doc,marvel.txt}
don@dono:/usr/share$ ls ~/lab6-q5/
data.xls movies
don@dono:/usr/share$ ls ~/lab6-q5/movies/
movies.lst
don@dono:/usr/share$
```

Challenge Question

```
don@dono:~/lab6$ mkdir -p challenge-lab6/{audio/{aac,mp3},docs/{docx,pdf
,xls},images/{jpg,png}}/
don@dono:~/lab6$ tree challenge-lab6/
challenge-lab6/
  - audio
    ___ mp3
  - docs
     — docx
       - pdf
   - images
      — jpg
    ___ png
10 directories, 0 files
don@dono:~/challenge-Lab6$ mv -t audio/aac song1.aac song2.aac song3.aac
don@dono:~/challenge-Lab6$ mv -t audio/mp3 song1.mp3 song2.mp3 song3.mp3
don@dono:~/challenge-Lab6$ tree audio/
audio/
  – aac
      — songl.aac
       song2.aac
       - song3.aac
       - song2.mp3
2 directories, 6 files
don@dono:~/challenge-Lab6$
```

```
don@dono:~/challenge-Lab6$ mv -t docs/docx docs1.docx docs2.docx docs3.d
ocx
don@dono:~/challenge-Lab6$ mv -t docs/pdf docs1.pdf docs2.pdf docs3.pdf
don@dono:~/challenge-Lab6$ mv -t docs/docx docs1.doc docs2.doc docs3.doc
don@dono:~/challenge-Lab6$ tree docs/
docs/
  - docx
    — docs1.doc
      docs1.docx
      - docs2.doc
      - docs2.docx
      - docs3.doc
    ___ docs3.docx
  - pdf
    — docs1.pdf
      docs2.pdf
    docs3.pdf
  - xls
3 directories, 9 files
don@dono:~/challenge-Lab6$
don@dono:~/challenge-Lab6$ mv -t images/jpg image1.jpg image2.jpg image3
.jpg
don@dono:~/challenge-Lab6$ tree images/jpg/
images/jpg/
  - imagel.jpg

    image2.jpg

 — image3.jpg
0 directories, 3 files
don@dono:~/challenge-Lab6$
```

```
don@dono:~/challenge-Lab6$ mv -t images/png image1.png image2.png image3
.png
don@dono:~/challenge-Lab6$ mv -t images/png image1.gif image2.gif image3
.gif
don@dono:~/challenge-Lab6$ tree images/png/
images/png/
image1.gif
image2.png
image2.gif
image2.png
image3.gif
image3.png
0 directories, 6 files
don@dono:~/challenge-Lab6$
```

