Week Report 6

Wildcards

At least 3 examples per wildcard (*,?,[])

The * Wildcard Matches anything and nothing (any number of characters)

- ls *.pdf **(display files with the .pdf extension)**
- ls file.* **(display files regardless of the file extension)**
- ls *.txt *.pdf **(display files with the file extension .txt and .pdf)**

The ? Wildcard Matches one character at a time

- ls b??l* **(list all the files with two characters between b and k)**
- ls *.??? **(list a file with 3 characters of file types and any name)**
- ls ./.??* **(list all hidden files in the pwd)**

☐ **Wildcard** Matches a single character in a given range

- ls f[!aeiou]* **(files that don't have a vowel after the letter f)**
- ls *[0-9]* **(files that have at least one number)**
- ls [a-fp-z]* **(files that have the two sets of character: letters from a-f or p-z)**

Practice

- ***Practice 5***

```
djnunez43983@CIS106VM:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-10-29 21:39:23--  https://cis106.com/assets/logo100x100.png
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png'

logo100x100.png              100%[===============================================>]   3.44K  --.-KB/s    in 0.001s

2022-10-29 21:39:23 (4.24 MB/s) - 'logo100x100.png' saved [3520/3520]

djnunez43983@CIS106VM:~$ ls
cis106      Downloads          lab4files    lab5ChallengeQuestion  lab5-video  Public     Videos
Desktop     gitcommands.txt    lab-5        lab5-docs              Music       snap       website
Documents   installPrograms.sh lab5-audio   lab5-imgs              Pictures    Templates  wildcardpractice
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/*random*
/home/djnunez43983/wildcardpractice/_random.csv     /home/djnunez43983/wildcardpractice/randomtext.txt
/home/djnunez43983/wildcardpractice/random_text.md
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/*.txt *.csv
ls: cannot access '*.csv': No such file or directory
 /home/djnunez43983/wildcardpractice/78food.txt    /home/djnunez43983/wildcardpractice/randomtext.txt
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/*.txt ~/wildcardpractice/*.csv
/home/djnunez43983/wildcardpractice/78food.txt      /home/djnunez43983/wildcardpractice/Sample1234.csv
/home/djnunez43983/wildcardpractice/_random.csv     /home/djnunez43983/wildcardpractice/sample123.csv
/home/djnunez43983/wildcardpractice/randomtext.txt
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/random*.md
/home/djnunez43983/wildcardpractice/random_text.md
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/*sample* ~/wildcardpractice/*.md
/home/djnunez43983/wildcardpractice/random_text.md  /home/djnunez43983/wildcardpractice/sample99.docx
/home/djnunez43983/wildcardpractice/sample123.csv   /home/djnunez43983/wildcardpractice/samplejsonfile.json
/home/djnunez43983/wildcardpractice/sample1.doc     /home/djnunez43983/wildcardpractice/sample.pdf
/home/djnunez43983/wildcardpractice/sample1.xls     /home/djnunez43983/wildcardpractice/samplesite.html
djnunez43983@CIS106VM:~$
```

- **_Practice 6_**

```
djnunez43983@CIS106VM:~$ ls ~/wildcardpractice/*.???
/home/djnunez43983/wildcardpractice/2020-08-27-capture.raw   /home/djnunez43983/wildcardpractice/book.exe
/home/djnunez43983/wildcardpractice/2022-02-02-camera.jpg    /home/djnunez43983/wildcardpractice/book.pdf
/home/djnunez43983/wildcardpractice/78food.txt               /home/djnunez43983/wildcardpractice/book.xml
/home/djnunez43983/wildcardpractice/allfiles.lst             /home/djnunez43983/wildcardpractice/fail.log
/home/djnunez43983/wildcardpractice/Allfiles.lst             /home/djnunez43983/wildcardpractice/file.log
/home/djnunez43983/wildcardpractice/baik.exe                 /home/djnunez43983/wildcardpractice/logo100x100.png
/home/djnunez43983/wildcardpractice/baik.pdf                 /home/djnunez43983/wildcardpractice/_random.csv
/home/djnunez43983/wildcardpractice/baik.xml                 /home/djnunez43983/wildcardpractice/randomtext.txt
/home/djnunez43983/wildcardpractice/beatk.exe                /home/djnunez43983/wildcardpractice/Sample1234.csv
/home/djnunez43983/wildcardpractice/beatk.pdf                /home/djnunez43983/wildcardpractice/sample123.csv
/home/djnunez43983/wildcardpractice/beatk.xml                /home/djnunez43983/wildcardpractice/sample1.doc
/home/djnunez43983/wildcardpractice/bk.exe                   /home/djnunez43983/wildcardpractice/sample1.xls
/home/djnunez43983/wildcardpractice/bk.pdf                   /home/djnunez43983/wildcardpractice/sample.pdf
/home/djnunez43983/wildcardpractice/bk.xml                   /home/djnunez43983/wildcardpractice/Sample.pdf
djnunez43983@CIS106VM:~$ ls -A  ~/wildcardpractice/
2020-08-27-capture.raw      baik.pdf        bk.pdf      .hidden1.doc    random_text.md   samplejsonfile.json
2021-04-10-screenshot.jpeg  baik.xml        bk.xml      .hidden1.py     randomtext.txt   sample.pdf
2022-02-02-camera.jpg       .bash_history   book.exe    .hidden2.doc    Sample1234.csv   Sample.pdf
78food.txt                  beatk.exe       book.pdf    .hidden2.py     sample123.csv    samplesite.html
allfiles.lst                beatk.pdf       book.xml    .hiddenFile.txt  sample1.doc
Allfiles.lst                beatk.xml       fail.log    logo100x100.png  sample1.xls
baik.exe                    bk.exe          file.log    _random.csv      sample99.docx
djnunez43983@CIS106VM:~$ cd ~/wildcardpractice/
djnunez43983@CIS106VM:~/wildcardpractice$ ls b??.???
ls: cannot access 'b??.???': No such file or directory
djnunez43983@CIS106VM:~/wildcardpractice$ ls b??*.???
baik.exe  baik.pdf  baik.xml  beatk.exe  beatk.pdf  beatk.xml  book.exe  book.pdf  book.xml
djnunez43983@CIS106VM:~/wildcardpractice$ ls sample*.?
ls: cannot access 'sample*.?': No such file or directory
djnunez43983@CIS106VM:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
djnunez43983@CIS106VM:~/wildcardpractice$ ls .??*.??
.hidden1.py  .hidden2.py
djnunez43983@CIS106VM:~/wildcardpractice$ 
```

- **_Practice 7_**

```
djnunez43983@CIS106VM:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst  baik.xml    beatk.xml  bk.xml     book.xml  logo100x100.png  sample1.doc
baik.exe      beatk.exe   bk.exe     book.exe   fail.log  randomtext.txt   sample1.xls
baik.pdf      beatk.pdf   bk.pdf     book.pdf   file.log  sample123.csv    sample.pdf
djnunez43983@CIS106VM:~/wildcardpractice$ ls [A-Z0-9]*.*
2020-08-27-capture.raw      2022-02-02-camera.jpg  Allfiles.lst    Sample.pdf
2021-04-10-screenshot.jpeg  78food.txt             Sample1234.csv
djnunez43983@CIS106VM:~/wildcardpractice$ ls [A-Z]*[0-9].*
Sample1234.csv
djnunez43983@CIS106VM:~/wildcardpractice$ ls [0-9][0-9][0-9][0-9]*.*
2020-08-27-capture.raw  2021-04-10-screenshot.jpeg  2022-02-02-camera.jpg
djnunez43983@CIS106VM:~/wildcardpractice$ ls [!aeioua-z]*.*
2020-08-27-capture.raw      2022-02-02-camera.jpg  Allfiles.lst    Sample1234.csv
2021-04-10-screenshot.jpeg  78food.txt             _random.csv     Sample.pdf
djnunez43983@CIS106VM:~/wildcardpractice$ ls [!AEIOUaeiou]*.*
2020-08-27-capture.raw      baik.xml    bk.xml     logo100x100.png  sample1.doc          samplesite.html
2021-04-10-screenshot.jpeg  beatk.exe   book.exe   _random.csv      sample1.xls
2022-02-02-camera.jpg       beatk.pdf   book.pdf   random_text.md   sample99.docx
78food.txt                  beatk.xml   book.xml   randomtext.txt   samplejsonfile.json
baik.exe                    bk.exe      fail.log   Sample1234.csv   sample.pdf
baik.pdf                    bk.pdf      file.log   sample123.csv    Sample.pdf
djnunez43983@CIS106VM:~/wildcardpractice$ ls [[:punct:]]*.*
_random.csv
djnunez43983@CIS106VM:~/wildcardpractice$ 
```

Brace Expansion

What is Brace Expansion and how to use it? Allows you to generate arbitrary string to use with commands, it let you create a whole directory structure in a single line

Examples

- mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
- touch file{A..Z}.txt **(to create a N number of files use)**
- rm -r {dir1,dir2,dir3,file.txt} **(to remove multiple files in a single directory)**