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Week Report 6

Wildcards

* Wildcard

The * wildcard matches from anything to nothing with any number of characters.

- Examples:
 - List all the files in a dir. that end in .txt
 - ls *.txt
 - List all the files in a dir. that end in .txt and .pdf
 - ls *.txt *.pdf
 - List all the files in a dir. that have any letter(s) before or after the string "file."
 - ls *file.*

? Wildcard

The? wildcard matches precisely one character

- Examples:
 - List all hidden files in a current dir.
 - ls ./.??*
 - List all hidden files in a parent directory.
 - ls ../.??*
 - List all files that have two characters between letters b and k
 - ls b??k*

[] Wildcard

The [] wildcard matches a single character in a range.

- Examples:
 - Match all files that have a vowel after the letter f.
 - ls f[aeiou]*
 - Match all files that do not have a vowel after the letter f.
 - ls f[!aeiou]*
 - Match all files whose name has at least one number.
 - ls *[0-9]*

Brace Expansion

Brace expansion is used for generating arbitrary strings to use with commands.

- Examples:
 - Create an entire dir. structure in a single command.
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
 - Create N number of files.

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- touch website{1..5}.html
- Remove multiple files in a single dir.
 - rm -r {dir1,dir2,dir3,file.text,file.py}

Practice

Practice 5

```
1: jeremyurena@cis106vm: ~/wildcardpractice ~
jeremyurena@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-18 11:53:35-- 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
                        in 0s
2023-11-18 11:53:35 (88.4 MB/s) - 'logo100x100.png' saved [3520/3520]
jeremyurena@cis106vm:~$ ls
             Hello.txt
                                          lab5-video
                                                                    Public
bakeyr
             Hi.txt
                                          maybeso.txt
box
                                                                    sunflower.mp3
                                                                    Templates
                                          Music
Desktop
             lab5-audio
                                          mydoglikespizza.txt
                                                                   Videos
Documents
             lab5ChallengeQuestion
                                         myfiles
                                                                    website
             lab5-docs
                                                                    wildcardpractice
Downloads
                                          no.txt
games.csv lab5-imgs
                                                                    ves.txt
jeremyurena@cis106vm:~$ cd wildcardpractice/
jeremyurena@cis106vm:~/wildcardpractice$ ls *random*
random.csv random_text.md randomtext.txt
 eremyurena@cis106vm:~/wildcardpractice$ ls *.csv *.txt
78food.txt _random.csv randomtext.txt Sample1234.csv
jeremyurena∂cis106vm:∼/wildcardpractice$ ls random∗.md
random_text.md
jeremyurena@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
jeremyurena@cis106vm:~/wildcardpractice$
```

Practice 6

```
1: jeremyurena@cis106vm: ~/wildcardpractice ~
jeremyurena@cis106vm:~$ cd wildcardpractice/
jeremyurena@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw Allfiles.lst beatk.exe bk.pdf
                                                                                    book.xml
                                                                                                              random.csv
                                                                                                                                    sample1.doc
                                                                                    fail.log
file.log
                                                      beatk.pdf
                                                                                                             randomtext.txt
                                                                                                                                   sample1.xls
2022-02-02-camera.jpg baik.exe
                                                                      bk.xml
                                  baik.pdf
                                                                                                             Sample1234.csv
                                                                                                                                    sample.pdf
78food.txt
                                                      beatk.xml
                                                                      book.exe
allfiles.lst
                                                                      book.pdf logo100x100.png sample123.csv
                                  baik.xml
                                                      bk.exe
                                                                                                                                    Sample.pdf
jeremyurena@cis106vm:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
jeremyurena@cis106vm:~/wildcardpractice$ ls b??.???
ls: cannot access 'b??.??': No such file or directory
jeremyurena@cis106vm:~/wildcardpractice$ ls b??*.??
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
jeremyurena@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
jeremyurena@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
jeremyurena@cis106vm:~/wildcardpractice$ ▋
```

Practice 7

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