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Week Report 6

Wildcards.

* wildcard

The * Wildcard matches from 0 to any number of characters.

- Examples:
 - List all the text file in a directory
 - ls *.txt
 - List all the files that start with the word file
 - ls file.*
 - Copy all the mp4 files
 - cp Downloads/*.mp4 ~/Videos/Movies/

? wildcard

The? Wildcard matches a single character.

- Examples:
 - List all the files that have a 3 letter file extension
 - ls *.???
 - List all the files that have two characters between b and k
 - ls b??k*
 - To list all hidden files
 - ls ./.??*

[] Wildcard

The [] Wildcard matches a single character from a set

- Examples:
 - To match all the files that have a vowel after letter f.
 - ls f[aeiou]*
 - To match all the files whose name has at least one number
 - ls *[0-9]*
 - To match all files whose names begins with a letter from a-p or start with letter s or c
 - ls [a-psc]*

Brace Expansion

The {} expansion allows you to generate arbitrary strings to use with commands

- Examples:
 - To create a whole directory structure in a single command.
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}

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- To create a N number of files use.
 - touch file{A..z}.txt
- Remove multiple files in a single directory
 - rm -r {dir1, dir2, dir3, file.txt, file.py}

Practice

Practice 5

```
mrgutierrez@cis106vm: ~/wildcardpractice
mrgutierrez@cis106vm:-$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-10-26 22:18:30-- 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 0s
2022-10-26 22:18:30 (33.4 MB/s) - 'logo100x100.png' saved [3520/3520]
mrgutierrez@cis106vm:~$ ls wildcardpractice/*practice*
ls: cannot access 'wildcardpractice/*practice*': No such file or directory
mrgutierrez@cis106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
mrgutierrez@cis106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt wildcardpractice/randomtext.txt wildcardpractice/sample123.csv
wildcardpractice/_random.csv wildcardpractice/Sample1234.csv
mrgutierrez@cis106vm:~$ ls random*.md
ls: cannot access 'random*.md': No such file or directory
mrgutierrez@cis106vm:~$ cd wildcardpractice/
mrgutierrez@cis106vm:~/wildcardpractice$ ls random*.md
random_text.md
mrgutierrez@cis106vm:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
mrgutierrez@cis106vm:~/wildcardpractice$
```

• Practice 6

```
mrgutierrez@cis106vm: ~/wildcardpractice
nrgutierrez@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw Allfiles.lst beatk.exe
                                                     bk.pdf
                                                                book.xml
                                                                                    _random.csv
                                                                                                     sample1.doc
                          baik.exe
                                         beatk.pdf
                                                     bk.xml
                                                                fail.log
                                                                                    randomtext.txt
                                                                                                     sample1.xls
                          baik.pdf
                                         beatk.xml
                                                                                   Sample1234.csv
                                                                                                     sample.pdf
78food.txt
                                                     book.exe file.log
allfiles.lst
                          baik.xml
                                         bk.exe
                                                     book.pdf logo100x100.png sample123.csv
                                                                                                     Sample.pdf
                                    actice$ ls .??*
nrgutierrez@cis106vm:~/w
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
                                     ctice$ ls b*.???
mrgutierrez@cis106vm:~/wildcardpra
baik.exe baik.xml beatk.pdf bk.exe bk.xml book.pdf
baik.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml
                           ldcardpractice$ ls sample?.*
nrgutierrez@cis106vm:~
sample1.doc sample1.xls
nrgutierrez@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
mrgutierrez@cis106vm:~/wildcardpractice$
```

• Practice 7

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