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Week Report 6

Wildcards

* Wildcard

The * wild card 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 3 characters and are followed by the word file in the name
 - ls ???File*
 - list all hidden files
 - ls ../.??*
 - list all the files with a four letter file extension
 - ls *.????

[] Wildcard

The [] wildcard matches a single character in a range. Uses the ! to reverse the match.

- Examples:
 - to match all files whose name has at least one number
 - ls *[0-9]*
 - to match all files whose name begins with a letter from a-p
 - ls [a-p]*
 - to match all files that have a vowel after letter m
 - ls m[aeiou]*

Brace Expansion

The brace expansion, {}, is not a wildcard, but another feature of bash that allows you to generate arbitrary strings to use with commands.

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

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- to create N number of files
 - touch image{1..5}.jpg
- to remove multiple files in a single directory
 - rm -r {dir1,di2,dir3,file.txt}

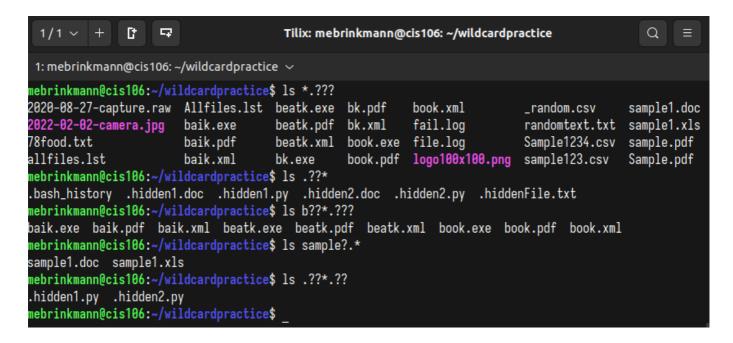
Practice

Practice 5

```
1/1 ~ +
                     G.
                                         Tilix: mebrinkmann@cis106: ~/wildcardpractice
                                                                                                    Q
 1: mebrinkmann@cis106: ~/wildcardpractice ∨
ebrinkmann@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
 -2023-04-28 09:51:04-- 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
_ength: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png
                               100%[======>] 3.44K --.-KB/s
Logo100x100.png
                                                                                                                 in 0s
2023-04-28 09:51:04 (50.2 MB/s) - 'logo100x100.png' saved [3520/3520]
nebrinkmann@cis106:~$ cd /wildcardpractice
pash: cd: /wildcardpractice: No such file or directory
mebrinkmann@cis106:~$ ls wildcardpractice/*random*
vildcardpractice/_random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
mebrinkmann@cis106:~$ ls wildcardpractice/*.csv wildcardpractice/*.txt
wildcardpractice/78food.txt wildcardpractice/randomtext.txt wildcardpractice/sample123.csv
wildcardpractice/_random.csv wildcardpractice/Sample1234.csv
mebrinkmann@cis106:~$ cd wildcardpractice/
mebrinkmann@cis106:~/wildcardpractice$ ls random*.md
random_text.md
mebrinkmann@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
ebrinkmann@cis106:~/wildcardpractice$
```

Practice 6

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Practice 7

