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Notes 6

* (Star/Asterisk) Wildcard

- Usage
 - Used to match 0 to any number of characters.
- Examples
 - List all of the directories inside a given directory without listing their content.
 - ls -1d wildcard extra practice/*/
 - Move all the .sh files.
 - mv wildcard practice/*.sh wildcard practice/scripts/
 - List all files in the Downloads directory that has the .png file extension.
 - ls ~/Downloads/*.png

? (Question Mark) Wildcard

- Usage
 - Used to match 1 character.
- Examples
 - List all the files that contain a 4 letter file extension.
 - ls -1X wildcard_practice/*.????
 - List all the files that contain a 2 letter file extension and starts with letter j.
 - ls -1X wildcard practice/j*.??
 - List all the Microsoft Office 365 files/
 - ls -1X wildcard practice/*.???x

[] (Square Brackets) Wildcard

- Usage
 - Used to match 1 character from a set.
- Examples
 - List all the files that start with a capital letter.
 - ls wildcard practice/[A-Z]*
 - List all the files that contain a number in their name.
 - ls wildcard practice/[0-9]
 - List all the files with a year in the name in yyyy format.
 - ls [0-9][0-9][0-9]*

Table

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Wildcard	definition	example
*	matches 0 to any number of characters	ls ~/Downloads/*.png
?	matches 1 character	ls ~/Downloads/f?ll.sh
	matches 1 character from a set	ls ~/Downloads/f[0-9]ll.sh

{} (Brace Expansion)

- Usage
 - Used to generate arbitrary strings to use with commands.
- Examples
 - Create a whole directory structure in a single command.
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
 - Create an N number of files.
 - touch website{1-5}.html
 - touch file{A-Z}.txt
 - Remove multiple files in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}