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Week 6 Report

* Wildcards

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

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

? Wildcards

The? wildcard matches precisely one character. Useful when working with hidden files.

- Examples:
 - · List all hidden files in the current directory
 - 'ls .??* '
- List all the files that have a two character between letter b and k
 - 'ls b??k*
- List all the files that have a single character between letter f and l
 - ls 'ls f?l*

[] Wildcards

The brackets wildcard match a single character in a range. Brackets will use and exclamation mark to reverse the match.

- Examples:
 - To match all files that have a vowel after letter f:
 - 'ls f[aeiou]*'
 - To match all files whose name begins with a letter from a-p or start with letters s or c
 - 'ls [a-psc]
 - To match all files that have a range of letters after f:
 - 'ls f[a-z]

Brace Expansion {}

It's not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.

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

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- rm -r {dir1,dir2,dir3,file.txt,file.py}
- Create a N number of files
 - touch website{1..5}.html

Practice

Practice 1:

```
blight@blight-VirtualBox:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-03 02:05:43-- 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
2022-11-03 02:05:43 (25.2 MB/s) - 'logo100x100.png' saved [3520/3520]
blight@blight-VirtualBox:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv
wildcardpractice/random_text.md
                                   wildcardpractice/randomtext.txt
blight@blight-VirtualBox:~$ Is wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt
                                   wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv
wildcardpractice/randomtext.txt
                                   wildcardpractice/sample123.csv
blight@blight-VirtualBox:~$ ls random*.md
ls: cannot access 'random*.md': No such file or directory
blight@blight-VirtualBox:~$ cd wildcardpractice/
blight@blight-VirtualBox:~/wildcardpractice$ ls random*.md
random_text.md
blight@blight-VirtualBox:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx
                                                     sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
blight@blight-VirtualBox:~/wildcardpractice$
```

Practice 2:

```
blight@blight-VirtualBox:-/wildcardpractice$ is *.???

2020-88-27-capture.raw 7870od.txt Allfiles.lst bakk.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log __random.csv Sample1234.csv sample1.doc sample.pdf

2022-80-20-ca-ca-ca-nera.jpg allfiles.lst baik.exe baik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png randomtext.txt sample1234.csv sample1.xls Sample.pdf

2022-80-20-ca-ca-ca-nera.jpg allfiles.lst baik.exe baik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png randomtext.txt sample123.csv sample1.xls Sample.pdf

2022-80-20-ca-canera.jpg allfiles.lst baik.exe baik.yml beatk.exp baik.exe baik.pdf baik.exe baik.exp baik.exe baik.exp baik.exe baik.exp baik.exp baik.exp baik.exp baik.pdf baik.xml beatk.exe beatk.pdf baik.xml beatk.exe beatk.pdf baik.xml beatk.exe baik.pdf baik.exe baik.pdf baik.xml beatk.exe baik.pdf baik.exe b
```

Practice 3:

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