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Week Report 6

Wildcards

* Wildcard

The * wildcard can represent any character, or any number of characters. It matches anything and nothing.

- Examples:
 - List all of the PDF files in this directory
 - ls *.pdf
 - List all of the files and folders that start with the word "Phone"
 - ls phone*
 - Delete multiple files that have a certain pattern in their names
 - rm test*.log

? Wildcard

The? wildcard can represent any type of character, but can only represent one single character.

- Examples:
 - List all of the PDF files in this directory that only have one character
 - ls ?.pdf
 - List all of the files and folders that start with the word "phone" and a single character after it
 - ls phone?
 - Delete multiple files that have 2 characters in their name
 - rm ??.log

[] Wildcard

The [] wildcard matches a single character in a range

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

Brace Expansions

Brace expansion is a feature of bash that allows you to generate arbitrary strings to use with commands.

Examples:

- This will create the three directories in the current directory.
 - mkdir folder{1,2,3}

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- This will copy three files to the specified diretory.
 - cp file{1,2,3}.txt /home/jdpaz/Downloads/
- This will rename the three files in the current directory.
 - mv testFile{1,2,3}.txt newFile{1,2,3}.txt

Practice

Practice 5

```
jdpaz@cis106vm ~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-05-02 21:46:24-- 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'
                   100%[==========] 3.44K --.-KB/s
logo100x100.png
                                                                  in 0s
2023-05-02 21:46:24 (50.6 MB/s) - 'logo100x100.png' saved [3520/3520]
jdpaz@cis106vm ~$ ls *random*
ls: cannot access '*random*': No such file or directory
jdpaz@cis106vm ~$ ls
jdpaz@cis106vm ~$ cd wildcardpractice/
jdpaz@cis106vm wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
jdpaz@cis106vm wildcardpractice$ ls *.csv *.txt
78food.txt _random.csv randomtext.txt Sample1234.csv sample123.csv
jdpaz@cis106vm wildcardpractice$ ls random*.md
random_text.md
jdpaz@cis106vm wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
jdpaz@cis106vm wildcardpractice$
```

Practice 6

Practice 7

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```
jdpaz@cis106vm wildcardpractice$ ls [a-z]*.???

allfiles.lst balk.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log randomtext.txt sample1.doc sample.pdf
baik.exe balk.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png sample123.csv sample1.xls

Jdpaz@cis106vm wildcardpractice$ ls [A-z]*[0-9]*

Sample1234.csv

Jdpaz@cis106vm wildcardpractice$ ls [0-9][0-9][0-9]*

Z020-08-27-capture.raw 2021-04-10-screenshot.jpeg 2022-02-02-camera.jpg

Jdpaz@cis106vm wildcardpractice$ ls [IAEIOUaeiou]*

Z020-08-27-capture.raw 78food.txt baik.xml beatk.xml bk.xml book.xml logo100x100.png randomtext.txt sample1.doc sample5onfile.json samplesite.html

Z021-04-10-screenshot.jpeg baik.exe beatk.exe bk.exe book.exe fail.log random_csv Sample1234.csv sample1.xls sample.pdf

Jdpaz@cis106vm wildcardpractice$ ls [:punc:]*

Is: cannot access '[:punc:]*: No such file or directory

Jdpaz@cis106vm wildcardpractice$ ls [:punct:]*

Ls: cannot access '[:punct:]*: No such file or directory

Jdpaz@cis106vm wildcardpractice$ ls [:punct:]*

Ls: cannot access '[:punct:]*: No such file or directory

Jdpaz@cis106vm wildcardpractice$ ls [:punct:]*

Ls: cannot access '[:punct:]*: No such file or directory

Jdpaz@cis106vm wildcardpractice$ ls [:punct:]*

Ls: cannot access '[:punct:]*

Ls: cannot access '[:punct:]*
```