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# Week Report 6

#### Wildcards

### \* Wildcard

The \* wildcard matches from 0 to any number of characters.

- Examples:
  - List all .doc files.
    - ls \*.doc
  - List files that have any character before and after the string "test."
    - ls \*test ?
  - List files that start with the string "movie" regardless of their extension.
    - ls movie.\*

### ? Wildcard

The ? wildcard matches precisely one character.

- Examples:
  - List all hidden files in the current directory.
    - ls ./.??\*
  - List all files that have two characters between the letters f and e.
    - ls f??e\*
  - List all files with a three letter extension
    - ls \*.???

## [] Wildcard

The [] wildcard match a single character in a range.

- Examples:
  - Match all files that do not have a vowel after f
    - ls f[!aeiou]
  - Match all files whose name has at least one number.
    - ls \*[0-9].\*
  - Match all files whose name begins with a letter from a-e or start with letters t or x:
    - ls [a-etx]\*

### **Brace Expansion**

Not a wild card but, allows you to generate arbitrary string to use with commands.

- Examples:
  - Create a whole direction structure in a single command
    - mkdir -p music/{jazz,rock}/{mp3files,videos,raw}/new{1..3}
  - Remove multiple files in a single directory

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- rm -r {dir1,dir2,dir3,file.txt,file.py}
- Create multiple files
  - touch file{1..10}.txt

## **Practices**

#### Practice 5

```
kmtorres46747@cis106:-$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash

--2023-04-19 00:25:47-- 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
 2023-04-19 00:25:47 (26.4 MB/s) - 'logo100x100.png' saved [3520/3520]
 kmtorres46747@cis106:-$ cd wildcardpractice/
kmtorres46747@cis106:-$ cd wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
kmtorres46747@cis106:-\frac{viildcardpractice}{viildcardpractice}$ ls *.csv *.txt
78food.txt _random.csv randomtext.txt Sample1234.csv sample123.csv
kmtorres46747@cis106:-\frac{viildcardpractice}{viildcardpractice}$ ls random*.md
random_text.md
kmtorres46747@cis106:-\frac{viildcardpractice}{viildcardpractice}$ ls *sample* *.md
random_text.md
sample1.doc sample99.docx sample.pdf
sample123.csv sample1.xls samplejsonfile.json samplesite.html
kmtorres46747@cis106:-\frac{viildcardpractice}{viildcardpractice}$
```

#### Practice 6

```
kmtorres46747@cis106:~/mildcardpractice$ ls *.???
2020-08-27-capture.raw 78food.txt Allfiles.lst baik.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log __random.csv Sample1234.csv sample1.doc sample.pdf
2022-02-camera.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
kmtorres46747@cis106:~/mildcardpractice$ ls 5.7??*
./.bash.history ./.hidden1.doc ./.hidden2.pv ./.hidden2.pv ./.hidden5ile.txt
kmtorres46747@cis106:~/mildcardpractice$ ls b27*.??
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
kmtorres46747@cis106:~/mildcardpractice$ ls sample?.*
sample1.doc sample1.doc
book.xml
kmtorres46747@cis106:~/mildcardpractice$ ls .??*.??
hidden1.pv .hidden2.pv
kmtorres46747@cis106:~/mildcardpractice$ ls .??*.??
kmtorres46747@cis106:~/mildcardpractice$ ls .??*.??
kmtorres46747@cis106:~/mildcardpractice$ ls .??*.??
```

# Practice 7

```
kmtorres46747@cis106:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst baik.pdf beatk.exe beatk.xml bk.pdf book.exe book.xml file.log randomtext.txt sample1.doc sample.pdf
baik.exe bik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png sample123.csv sample1.xls
kmtorres46747@cis106:*/wildcardpractice$ ls [a-z]*[a-y]*
Sample1234.csv
kmtorres46747@cis106:*/wildcardpractice$ ls [9-y][0-y][0-y]*
2020-08-27-capture.raw 2021-04-10-screenshot.jpeg 2022-02-camera.jpg
kmtorres46747@cis106:*/wildcardpractice$ ls [!AE10Uasiou]*
2020-08-27-capture.raw 787004.txt baik.xml beatk.xml bk.xml book.xml logo100x100.png randomtext.txt sample1.doc samplejsonfile.json samplesite.html
2021-04-10-screenshot.jpeg baik.exe beatk.exe bk.exe book.exe fail.log random.csv Sample1234.csv sample1.xls sample.pdf
2022-04-10-camera.jpg baik.pdf beatk.pdf bk.pdf book.pdf file.log random_text.md sample123.csv sample99.docx Sample.pdf
kmtorres46747@cis106:*/wildcardpractice$ ls [[:punct:]]

Scannot access '[[:punct:]]: bs such file or directory
kmtorres46747@cis106:*/wildcardpractice$ ls [[:punct:]]*
__random.csv
kmtorres46747@cis106:*/wildcardpractice$ _
```