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Week Report 6

Wild Cards.

Wildcard represents letters and characters used to specify a file name for searches. The importance of wildcard would be that:

- 1. You can use a wildcard to get a long lst of all files in the current directory starting with "new"
- 2. Move or delete a group of files
- 3. Create files and directories quicker.

* Wildcard

The importance of the * Wildcard is that it's the main wildcard, it's able to match anything and nothing and matches any number of characters. When you want to list all files with a particular file extension. When you want to copy, move, or remove all files that match a particular naming convention.

* Wildcard examples

```
1. ls *.txt
2. ls *.txt *.pdf
3. ls file.*
```

? Wildcard

The? wildcard meta character matches precisely one character. The? wildcard proves very useful when working with hidden files.

? Wildcard examples

```
1. ls ./. ?*
2. ls ../.??*
3. ls b??k*
```

[] Wildcard

The brackets wildcard match a single character in a range. The brackets wildcard use the exlamation mark to reverse the match.

The [] wildcard

```
    1. ls f[aeiou]
    2. ls *[0-9]
    3. ls [a-psc]
```

Brace expansion

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Brace expansion {} is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands. To create a whole directory structure in a single command: mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}

```
To create N number of files use: touch website \{1..5\}. html touch file \{001..10\}.py touch file \{\{a..z\}, \{0..10\}\}.js
```

To remove multiple files in a single directory rm -r {dir1, dir2, dir3, file.txt, file.py}

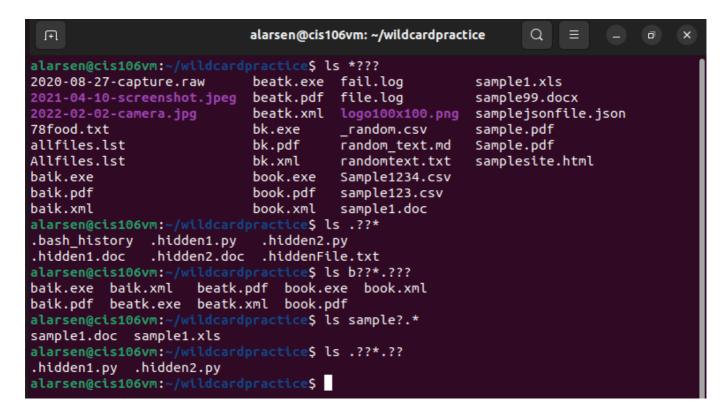
Practice

Practice 5:

```
alarsen@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-05 11:53:53-- 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'
                                                                     in 0s
logo100x100.png
                    100%[=========]
                                                 3.44K --.-KB/s
2022-11-05 11:53:53 (25.4 MB/s) - 'logo100x100.png' saved [3520/3520]
alarsen@cis106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv
                                 wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
alarsen@cis106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt
                                 wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv
wildcardpractice/randomtext.txt
                                 wildcardpractice/sample123.csv
alarsen@cis106vm:~$ cd wildcardpractice/
alarsen@cis106vm:~/wildcardpractice$ ls random*.md
random text.md
alarsen@cis106vm:~/wildcardpractice$ ls *sample* *.md*
random_text.md sample1.doc sample99.docx
                                                   sample.pdf
                sample1.xls samplejsonfile.json samplesite.html
sample123.csv
alarsen@cis106vm:~/wildcardpractice$
```

Practice 6:

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Practice 7:

```
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                            alarsen@cis106vm: ~/wildcardpractice
                                                                 Q
alarsen@cis106vm:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst
              beatk.exe
                         bk.pdf
                                    book.xml
                                                      randomtext.txt
                                                                      sample.pdf
baik.exe
              beatk.pdf
                         bk.xml
                                    fail.log
                                                      sample123.csv
baik.pdf
              beatk.xml
                         book.exe
                                                      sample1.doc
                                    file.log
baik.xml
              bk.exe
                          book.pdf
                                    logo100x100.png
                                                      sample1.xls
alarsen@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
alarsen@cis106vm:~/wildcardpractice$ ls [0-9][0-9][0-9][0-9]*
2020-08-27-capture.raw 2021-04-10-screenshot.jpeg 2022-02-02-camera.jpg
alarsen@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw
                             beatk.pdf
                                        fail.log
                                                          sample1.doc
                            beatk.xml
2021-04-10-screenshot.jpeg
                                        file.log
                                                          sample1.xls
                            bk.exe
                                        logo100x100.png
2022-02-02-camera.jpg
                                                          sample99.docx
78food.txt
                            bk.pdf
                                        random.csv
                                                          samplejsonfile.json
baik.exe
                                        random text.md
                             bk.xml
                                                          sample.pdf
baik.pdf
                             book.exe
                                        randomtext.txt
                                                          Sample.pdf
baik.xml
                             book.pdf
                                        Sample1234.csv
                                                          samplesite.html
beatk.exe
                             book.xml
                                        sample123.csv
alarsen@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
alarsen@cis106vm:~/wildcardpractice$
```