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Week Report 6

Wildcards

- Wildcards represent letters and characters used to specify a file name for searches.
- File globbing is the processing of pattern matching using wildcards.
- The wildcards are officially called metacharacter wildcards.

* Wildcard

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 the word "file":
 - ls file*
 - Copy all the mp4 files:
 - cp Downloads/*.mp4 ~/Videos/Movies/

? Wildcard

The? Wildcard metacharacter matches precisely one character.

- Examples:
 - List all the files that have 3 characters and are followed by the word "file" in the name:
 - ls ???File*
 - List all the files that have a 2 letter extension:
 - ls *.??
 - List all files that start with the letter p and have a 2 letter extension:
 - ls *p?*.??

[] Wildcard

The [] Wildcard match a single character in a range. The [] Wildcard use the exclamation mark to reverse the match.

- Examples:
 - Match all files that have a vowel after the letter f:
 - ls f[aeiou]*
 - Match all the files whose name does not have a number in their file name:
 - ls *[!0-9].*
 - Match all files whose name begins with any 3 combination of numbers and the current user's username:
 - ls [0-9][0-9][0-9]\$USER

Brace Expansion

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The {} expansion is not a wildcard but another feature of bash that allows you 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}
 - Remove multiple files in a single directory:
 - rm -r {dir1,dir2,dir3,file.txt,file.py}
 - Create a N number of files:
 - touch website{1..5}.html

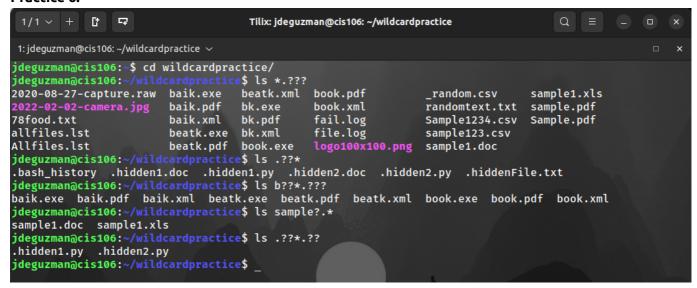
Practice

Practice 5:

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                                           Tilix: jdeguzman@cis106: ~/wildcardpractice
 1: jdeguzman@cis106: ~/wildcardpractice ~
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jdeguzman@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash --2023-04-29 12:46:17-- 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
2023-04-29 12:46:17 (115 MB/s) - 'logo100x100.png' saved [3520/3520]
jdeguzman@cis106:~$ cd wildcardpractice/
jdeguzman@cis106:~/wildcardpractice$ ls
2020-08-27-capture.raw
                                 beatk.exe fail.log
                                                                  sample1.xls
                                              file.log
2021-04-10-screenshot.jpeg
                                 beatk.pdf
                                                                   sample99.docx
2022-02-02-camera.jpg
                                 beatk.xml
                                              logo100x100.png
                                                                   samplejsonfile.json
78food.txt
                                 bk.exe
                                              _random.csv
                                                                   sample.pdf
allfiles.lst
                                 bk.pdf
                                              random_text.md
                                                                  Sample.pdf
Allfiles.lst
                                 bk.xml
                                              randomtext.txt
                                                                   samplesite.html
baik.exe
                                 book.exe
                                              Sample1234.csv
baik.pdf
                                 book.pdf
                                              sample123.csv
baik.xml
                                              sample1.doc
                                 book.xml
jdeguzman@cis106:~/wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
jdeguzman@cis106:~/wildcardpractice$ ls *.{csv,txt}
78food.txt _random.csv randomtext.txt Sample1234.csv sample123.csv
jdeguzman@cis106:~/wildcardpractice$ ls random*.md
random_text.md
jdeguzman@cis106:~/wildcardpractice$ ls sample* *.md
random_text.md sample1.doc sample99.docx
                                                           sample.pdf
sample123.csv
                   sample1.xls samplejsonfile.json samplesite.html
jdeguzman@cis106:~/wildcardpractice$
```

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Practice 6:



Practice 7:

