wr6.md 2023-11-12

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Week Report 6

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 matches a single character.

- Examples:
 - List all the files hidden files in the current directory:
 - ls ../.??*
 - List all the files that have 2 characters between letter b and k:
 - ls b??k*
 - List all the files that have a 3 letter file extension:
 - ls *.???

[] Wildcard

The [] wildcard matches a single character to a set.

- Examples:
 - Match all files that have a vowel after letter f:
 - ls f[aeiou]*
 - Match all files that have a range of letters after f:
 - ls f[a-z]*
 - 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

The brace expansion is not a wild card but another feature of bash that allows you to generate arbitrary strings to use with commands.

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- Examples:
 - Create a whole directory structure in a single command:
 - mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}
 - Create a N Number of files use:
 - touch website{1..5}.html
 - Remove multiple files in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}

Practice 5

```
daakwetee@cis106:-$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-12 01:23:18-- 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

2023-11-12 01:23:19 (11.8 MB/s) - 'logo100x100.png' saved [3520/3520]

daakwetee@cis106:-$ ls wildcardpractice/random*
wildcardpractice/random.csv wildcardpractice/random_text.md wildcardpractice/randomtext.txt
daakwetee@cis106:-$ ls wildcardpractice/random.csv wildcardpractice/*.txt wildcardpractice/randomtext.txt
wildcardpractice/78food.txt wildcardpractice/_random.csv wildcardpractice/randomtext.txt wildcardpractice/somple123.csv
daakwetee@cis106:-$ ls wildcardpractice/random*.md
wildcardpractice/random_text.md
daakwetee@cis106:-$ ls wildcardpractice/sample* wildcardpractice/*.md
wildcardpractice/random_text.md
daakwetee@cis106:-$ ls wildcardpractice/sample* wildcardpractice/*.md
wildcardpractice/random_text.md
daakwetee@cis106:-$ ls wildcardpractice/sample* wildcardpractice/sample99.docx
wildcardpractice/sample123.csv
wildcardpractice/sample123.csv wildcardpractice/sample1.xls wildcardpractice/sample99.docx
wildcardpractice/samplesite.html
```

Practice 6

```
daakwetee@cis106:~/wildcardpractice$ ls *.???
                                                                   _random.csv
2020-08-27-capture.raw
                         baik.exe
                                     beatk.xml
                                                 book.pdf
                                                                                    sample1.xls
                                                                                    sample.pdf
2022-02-02-camera.jpg
                         baik.pdf
                                     bk.exe
                                                 book.xml
                                                                   randomtext.txt
78food.txt
                         baik.xml
                                     bk.pdf
                                                 fail.log
                                                                                    Sample.pdf
                                                                   Sample1234.csv
allfiles.lst
                         beatk.exe
                                     bk.xml
                                                 file.log
                                                                   sample123.csv
Allfiles.lst
                         beatk.pdf
                                     book.exe
                                                 logo100x100.png sample1.doc
daakwetee@cis106:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
daakwetee@cis106:~/wildcardpractice$ ls b??*.???
baik.exe baik.pdf baik.xml beatk.exe beatk.pdf beatk.xml book.exe book.pdf book.xml
daakwetee@cis106:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
daakwetee@cis106:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
daakwetee@cis106:∼/wildcardpractice$
```

Practice 7

```
daakwetee@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 baik.xml beatk.pdf bk.exe bk.xml book.pdf fail.log logo100x100.png sample123.csv sample1.xls

daakwetee@cis106:~/wildcardpractice$ ls [a-Z]*[0-9]*

2020-08-27-capture.raw 2021-04-10-screenshot.jpeg 2022-02-camera.jpg

daakwetee@cis106:-/wildcardpractice$ ls [!AEIOUaeiou]*

2020-08-27-capture.raw 78food.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

2022-02-02-camera.jpg baik.pdf beatk.pdf bk.pdf book.pdf file.log random_text.md sample123.csv sample99.docx Sample.pdf

daakwetee@cis106:-/wildcardpractice$ [[:punct:]]*
  _random.csv: command not found

daakwetee@cis106:-/wildcardpractice$ ls [[:punct:]]*
  _random.csv

daakwetee@cis106:-/wildcardpractice$ ls [[:punct:]]*
```