

# Week Report 6

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## Types of Wildcards

### Wildcard \*

1. \*: allows for 0 or multiple characters
  - `ls *.txt`
  - `ls .txt`
  - `ls -A demo`

### Wildcard ?

2. ?: allows for 1 character
  - `ls program?.txt`
  - `rm assets/.*?.doc`
  - `ls -A .*?*****`

### Wildcard []

[]: allows for a set of characters

- `ls [A-Z].txt`
- `ls [0-9].png`
- `ls [a-z0-9].xls`

## Practice Question Answers

5.

```
jsamaan@cis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-17 21:02:24-- 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'

logo100x100.png      100%[=====] 3.44K  ---KB/s   in 0s

2023-11-17 21:02:24 (72.3 MB/s) - 'logo100x100.png' saved [3520/3520]

jsamaan@cis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv      wildcardpractice/randtext.txt
wildcardpractice/random_text.md

jsamaan@cis106:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt      wildcardpractice/sample1234.csv
wildcardpractice/_random.csv     wildcardpractice/sample123.csv
wildcardpractice/randtext.txt

jsamaan@cis106:~$
jsamaan@cis106:~$ cd wildcardpractice/
jsamaan@cis106:~/wildcardpractice$ ls random*.md
random_text.md

jsamaan@cis106:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx  sample.pdf
sample123.csv  sample1.xls  samplejsonfile.json  samplesite.html
jsamaan@cis106:~/wildcardpractice$
```

6.

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

7.

```
jsamaan@cis106:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst  baik.pdf  beatk.exe  beatk.xml  bk.pdf  book.exe  book.xml  file.log  _random.csv  Sample1234.csv  sample1.doc  sample.pdf
baik.exe     baik.xml  beatk.pdf  bk.exe   bk.xml  book.pdf  fail.log  logo100x100.png  sample123.csv  sample1.xls
jsamaan@cis106:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
jsamaan@cis106:~/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
jsamaan@cis106:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw  78food.txt  baik.xml  beatk.xml  bk.xml  book.xml  logo100x100.png  randtext.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
jsamaan@cis106:~/wildcardpractice$ ls
2020-08-27-capture.raw  78food.txt  baik.exe  beatk.exe  bk.exe  book.exe  fail.log  _random.csv  Sample1234.csv  sample1.xls  sample.pdf
2021-04-10-screenshot.jpeg  allfiles.lst  baik.pdf  beatk.pdf  bk.pdf  book.pdf  file.log  random_text.md  sample123.csv  sample99.docx  Sample.pdf
2022-02-02-camera.jpg  Allfiles.lst  baik.xml  beatk.xml  bk.xml  book.xml  logo100x100.png  randtext.txt  sample1.doc  samplejsonfile.json  samplesite.html
jsamaan@cis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
jsamaan@cis106:~/wildcardpractice$
```

## Brace Expansion

- Allows you to generate arbitrary strings used with commands.
- Ex. mkdir -p videos/{funny,sad}/{mp4files,avi}/new{1..9}
- Ex. touch {A-Z}.txt
- Ex. rm -r {file1,file2,file3}