

Week Report 6

Instructions:

Weekly Report must include the following: Wildcards. At least 3 examples per wildcard (*,?,[])

Complete all the practice in the presentation and take screenshots after you complete each practice.

* Practice 5 * Practice 6 * Practice 7 Brace expansion and how to use it. At least 3 examples

Wildcards

The * Wildcard

The * Wildcard matches zero or any number of characters in a filename.

- Examples:

```
[16:27:55](adrian@G752VL2 dir)
>ls *.txt 1
1233_file.txt 'another file.txt' _file.txt
[16:28:01](adrian@G752VL2 dir)
>ls *.txt *.pdf 2
1233_file.txt 'another file.txt' f2.pdf f3.pdf _file.txt
[16:28:12](adrian@G752VL2 dir)
>ls file.* 3
ls: cannot access 'file.*': No such file or directory
[16:28:23](adrian@G752VL2 dir)
>ls *file.* 4
1233_file.txt 'another file.txt' _file.txt
[16:28:34](adrian@G752VL2 dir)
>
```

The ? Wildcard

The ? Wildcard matches precisely one character in a filename. It is very useful when working with hidden files.

- Examples:

```
[17:43:36] (adrian@G752VL2 dir) 1
>ls
beet  boat      book.docx  book.pdf  fail.txt
biek  book.doc  book.epub  dir2      file.txt
[17:43:37] (adrian@G752VL2 dir) 2
>ls ../??*
../.hidden1 ../.hidden2 ../.hidden3
[17:43:47] (adrian@G752VL2 dir) 3
>cd dir2/
[17:43:53] (adrian@G752VL2 dir2) 4
>ls ../??*
../.hidden1 ../.hidden2 ../.hidden3
[17:44:00] (adrian@G752VL2 dir2) 5
>cd ../
[17:44:05] (adrian@G752VL2 dir) 6
>ls b??k*
biek  book.doc  book.docx  book.epub  book.pdf
[17:44:25] (adrian@G752VL2 dir) 7
>ls f?l*
file.txt
[17:44:47] (adrian@G752VL2 dir) 8
>ls *.???
book.doc  book.pdf  fail.txt  file.txt
[17:45:02] (adrian@G752VL2 dir)
>
```

The [] Wildcard

The [] Wildcard matches a single character in a range. The brackets wildcard [] can use the exclamation mark ! to reverse the match.

- Examples:

- To match all files that have a vowel after letter f:
 - `ls f[aeiou]*`
- To match all files that do not have a vowel after letter f:
 - `ls f![aeiou]*`
- To match all files that have a range of letters after f:
 - `ls f[a-z]*`
- To match all files whose name has at least one number:
 - `ls *[0-9]*`
- To match all the files whose name does not have a number in their file name:
 - `ls *![0-9].*`
- To match all files whose name begins with a letter from a-p or start with letters s or c:
 - `ls [a-psc]*`
- To match all files whose name begins with any of these two sets of characters: letters from a-f or p-z:
 - `ls [a-fp-z]*`

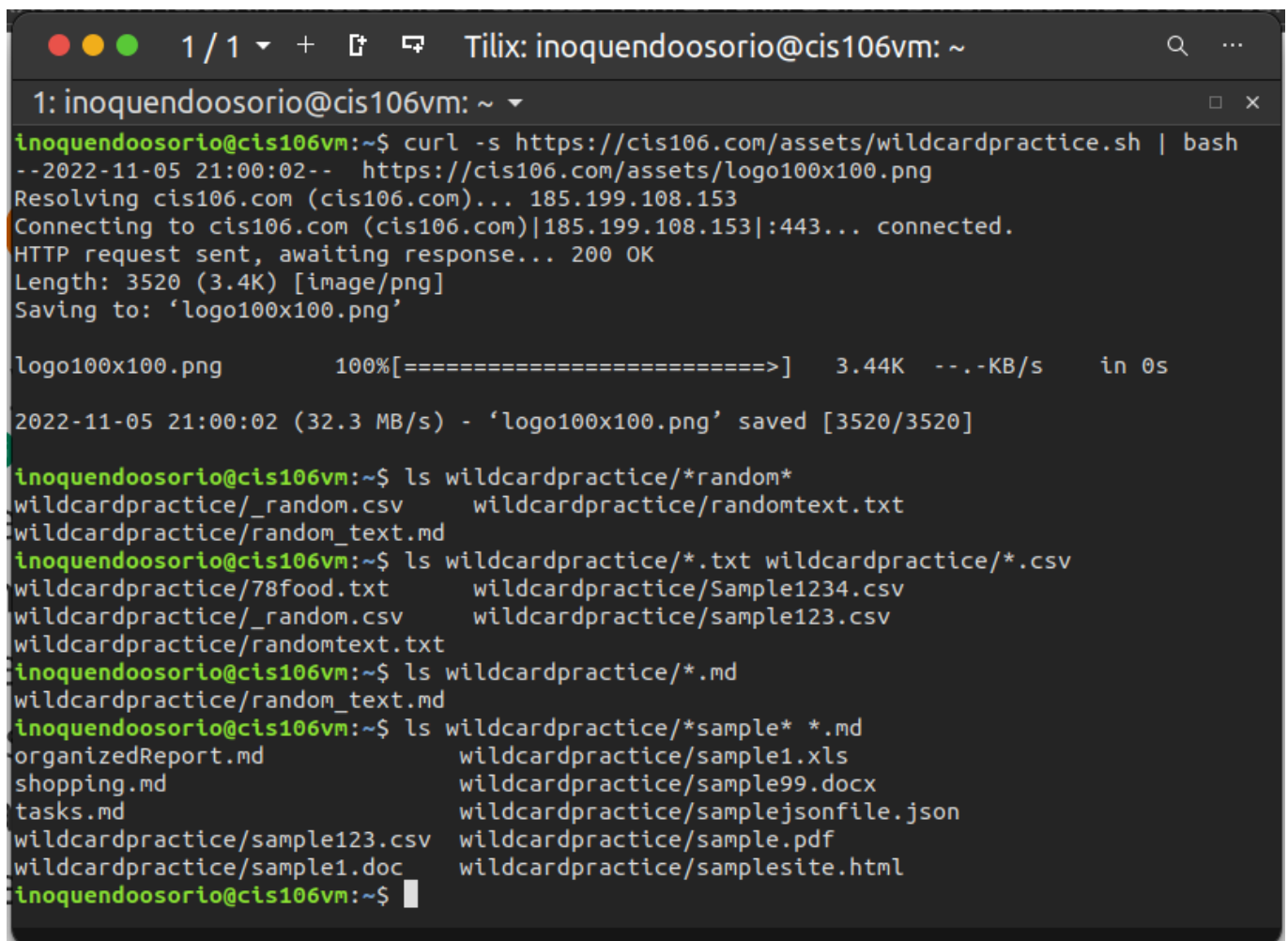
Using Brace Expansion

Brace expansion is not a wildcard, but another feature of the bash shell that allows you to generate arbitrary strings to use with commands.

- Examples:
 - To create a whole directory structure in a single command:
 - `mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}`
 - To create a N number of files use:
 - `touch website{1..5}.html`
 - `touch file{A..Z}.txt`
 - `touch file{001..10}.py`
 - `touch file{{a..z},{0..10}}.js`
 - Remove multiple files in a single directory
 - `rm -r {dir1,dir2,dir3,file.txt,file.py}`

Practices:

Practice 5



```
Tilix: inoquendoosorio@cis106vm: ~
1: inoquendoosorio@cis106vm: ~
inoquendoosorio@cis106vm:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2022-11-05 21:00:02-- 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

2022-11-05 21:00:02 (32.3 MB/s) - 'logo100x100.png' saved [3520/3520]

inoquendoosorio@cis106vm:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv      wildcardpractice/randomtext.txt
wildcardpractice/random_text.md

inoquendoosorio@cis106vm:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt      wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv     wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt

inoquendoosorio@cis106vm:~$ ls wildcardpractice/*.md
wildcardpractice/random_text.md

inoquendoosorio@cis106vm:~$ ls wildcardpractice/*sample* *.md
organizedReport.md      wildcardpractice/sample1.xls
shopping.md             wildcardpractice/sample99.docx
tasks.md               wildcardpractice/samplejsonfile.json
wildcardpractice/sample123.csv  wildcardpractice/sample.pdf
wildcardpractice/sample1.doc   wildcardpractice/samplesite.html
inoquendoosorio@cis106vm:~$
```

Practice 6

```

1 / 1 + ...quendoosorio@cis106vm: ~/wildcardpractice
1: inoquendoosorio@cis106vm: ~/wildcardpractice
inoquendoosorio@cis106vm:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  baik.pdf  bk.pdf  file.log  sample1.doc
2022-02-02-camera.jpg  baik.xml  bk.xml  logo100x100.png  sample1.xls
78food.txt             beatk.exe book.exe _random.csv  sample.pdf
allfiles.lst           beatk.pdf book.pdf randomtext.txt  Sample.pdf
Allfiles.lst           beatk.xml book.xml Sample1234.csv
baik.exe               bk.exe   fail.log sample123.csv
inoquendoosorio@cis106vm:~/wildcardpractice$ ls .??*
.bash_history .hidden1.doc .hidden1.py .hidden2.doc .hidden2.py .hiddenFile.txt
inoquendoosorio@cis106vm:~/wildcardpractice$ ls b??*.???
baik.exe baik.xml beatk.pdf book.exe book.xml
baik.pdf beatk.exe beatk.xml book.pdf
inoquendoosorio@cis106vm:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
inoquendoosorio@cis106vm:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
inoquendoosorio@cis106vm:~/wildcardpractice$

```

Practice 7

```

1 / 1 + ...quendoosorio@cis106vm: ~/wildcardpractice
1: inoquendoosorio@cis106vm: ~/wildcardpractice
inoquendoosorio@cis106vm:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst baik.xml beatk.xml bk.xml book.xml logo100x100.png sample1.doc
baik.exe      beatk.exe bk.exe  book.exe fail.log randomtext.txt sample1.xls
baik.pdf      beatk.pdf bk.pdf  book.pdf file.log sample123.csv sample.pdf
inoquendoosorio@cis106vm:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
inoquendoosorio@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
inoquendoosorio@cis106vm:~/wildcardpractice$ ls [!AEIOUaeiou]*
2020-08-27-capture.raw  beatk.pdf  fail.log  sample1.doc
2021-04-10-screenshot.jpeg  beatk.xml  file.log  sample1.xls
2022-02-02-camera.jpg     bk.exe    logo100x100.png  sample99.docx
78food.txt               bk.pdf    _random.csv  samplejsonfile.json
baik.exe                 bk.xml    random_text.md  sample.pdf
baik.pdf                 book.exe  randomtext.txt  Sample.pdf
baik.xml                 book.pdf  Sample1234.csv  samplesite.html
beatk.exe                book.xml  sample123.csv
inoquendoosorio@cis106vm:~/wildcardpractice$ ls [[:punct]]*
ls: cannot access '[:punct]*': No such file or directory
inoquendoosorio@cis106vm:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
inoquendoosorio@cis106vm:~/wildcardpractice$

```

Bonus {brace expansion}

```
Tilix: inoquendoosorio@cis106vm: ~  
1: inoquendoosorio@cis106vm: ~  
inoquendoosorio@cis106vm:~$ mkdir -p music/{jazz,rock}/{mp3files,videos,oggfiles}/new  
inoquendoosorio@cis106vm:~$ tree music/  
music/  
├── jazz  
│   ├── mp3files  
│   │   └── new  
│   ├── oggfiles  
│   │   └── new  
│   └── videos  
│       └── new  
└── rock  
    ├── mp3files  
    │   └── new  
    ├── oggfiles  
    │   └── new  
    └── videos  
        └── new  
  
14 directories, 0 files  
inoquendoosorio@cis106vm:~$
```