```
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course: cis 106
semester: spring 23
```

WEEK REPORTS 6

WILDCARDS.

Wildcards. At least 3 examples per wildcard (*,?,[])

(*)

- EXAMPLES:
    - List all the text file in a directory
        - `ls *.txt`
    - List all the files that start with word files.
        - `ls file*`
    - copy all the mp4 files
        - `cp download/*.mp4 ~/videos/movies/`

(?)

- Examples:
- Lists file with single character *

```
svpatel@ubuntucis106:~/wildscard_examples$ touch d
svpatel@ubuntucis106:~/wildscard_examples$ ls ?
d
```

- Display files with a specific extension and a single character before the extension *

```
svpatel@ubuntucis106:~/wildscard_examples$ ls ??.txt
99.txt
```

- Remove files with a single-character name *

```
svpatel@ubuntucis106:~/wildscard_examples$ touch d
svpatel@ubuntucis106:~/wildscard_examples$ ls ?
d
svpatel@ubuntucis106:~/wildscard_examples$ ls ??.txt
99.txt
svpatel@ubuntucis106:~/wildscard_examples$ rm ?
svpatel@ubuntucis106:~/wildscard_examples$ ls
1.txt  2.txt  99.txt  g.txt
svpatel@ubuntucis106:~/wildscard_examples$ █
```

([])

- Matches a Range of Characters:

```
svpatel@ubuntucis106:~/wildscard_examples$ touch file1
svpatel@ubuntucis106:~/wildscard_examples$ touch file2
svpatel@ubuntucis106:~/wildscard_examples$ touch file3
svpatel@ubuntucis106:~/wildscard_examples$ touch apple
svpatel@ubuntucis106:~/wildscard_examples$ touch dragonfruit
svpatel@ubuntucis106:~/wildscard_examples$ touch document
svpatel@ubuntucis106:~/wildscard_examples$ touch results
svpatel@ubuntucis106:~/wildscard_examples$ touch grades
svpatel@ubuntucis106:~/wildscard_examples$ ls
1.txt     2.2.png   2.txt    apple       dragonfruit  file2  grades  results
2.1.png   2.3.png   99.txt   document    file1        file3  g.txt
svpatel@ubuntucis106:~/wildscard_examples$ ls*[1-3]
ls*[1-3]: command not found
svpatel@ubuntucis106:~/wildscard_examples$ ls *[1-3]
file1  file2  file3
```

- Matches a Set of Characters:

```
svpatel@ubuntucis106:~/wildscard_examples$ ls [ab]*
apple
```

- Excluding Characters:

```
svpatel@ubuntucis106:~/wildscard_examples$ ls *[^0-9]
1.txt     2.2.png   2.txt    apple       dragonfruit  g.txt
2.1.png   2.3.png   99.txt   document    grades       results
svpatel@ubuntucis106:~/wildscard_examples$
```

Practice

```
gtk message:       : failed to load module canberra-gtk-module
svpatel@ubuntucis106:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
--2023-11-13 21:38:24--  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 0.01s

2023-11-13 21:38:25 (337 KB/s) - 'logo100x100.png' saved [3520/3520]

svpatel@ubuntucis106:~$ ls wildcardpractice/*random*
wildcardpractice/_random.csv     wildcardpractice/randomtext.txt
wildcardpractice/random_text.md
svpatel@ubuntucis106:~$ ls wildcardpractice/*.txt wildcardpractice/*.csv
wildcardpractice/78food.txt      wildcardpractice/Sample1234.csv
wildcardpractice/_random.csv     wildcardpractice/sample123.csv
wildcardpractice/randomtext.txt
svpatel@ubuntucis106:~$ cd wildcardpratice/
bash: cd: wildcardpratice/: No such file or directory
svpatel@ubuntucis106:~$ cd wildcardpractice/
svpatel@ubuntucis106:~/wildcardpractice$ ls random*.md
random_text.md
svpatel@ubuntucis106:~/wildcardpractice$ ls *sample*.md
ls: cannot access '*sample*.md': No such file or directory
svpatel@ubuntucis106:~/wildcardpractice$ ls *sample**.md
ls: cannot access '*sample**.md': No such file or directory
svpatel@ubuntucis106:~/wildcardpractice$ ls *sample* *.md
random_text.md  sample1.doc  sample99.docx         sample.pdf
sample123.csv   sample1.xls  samplejsonfile.json   samplesite.html
```

Practice

```
svpatel@ubuntucis106:~/wildcardpractice$ ls *.???
2020-08-27-capture.raw  baik.pdf    bk.pdf    file.log          sample1.d
2022-02-02-camera.jpg   baik.xml    bk.xml    logo100x100.png   sample1.x
78food.txt              beatk.exe   book.exe  _random.csv       sample.p
allfiles.lst            beatk.pdf   book.pdf  randomtext.txt    Sample.p
Allfiles.lst            beatk.xml   book.xml  Sample1234.csv
baik.exe                bk.exe      fail.log  sample123.csv
svpatel@ubuntucis106:~/wildcardpractice$ ls.??*
ls.??*: command not found
svpatel@ubuntucis106:~/wildcardpractice$ ls. ??*
Command 'ls.' not found, did you mean:
  command 'lsd' from snap lsd (0.16.0)
  command 'lsc' from deb livescript (1.6.1+dfsg-2)
  command 'lsh' from deb lsh-client (2.1-13)
  command 'lsm' from deb lsm (1.0.4-2)
  command 'ls' from deb coreutils (8.32-4.1ubuntu1)
  command 'lsw' from deb suckless-tools (46-1)
See 'snap info <snapname>' for additional versions.
svpatel@ubuntucis106:~/wildcardpractice$ ls .??*
.bash_history   .hidden1.py   .hidden2.py
.hidden1.doc    .hidden2.doc  .hiddenFile.txt
svpatel@ubuntucis106:~/wildcardpractice$ ls b??*.???
baik.exe  baik.xml   beatk.pdf  book.exe  book.xml
baik.pdf  beatk.exe  beatk.xml  book.pdf
svpatel@ubuntucis106:~/wildcardpractice$ ls sample?.*
sample1.doc  sample1.xls
svpatel@ubuntucis106:~/wildcardpractice$ ls .??*
.bash_history   .hidden1.py   .hidden2.py
.hidden1.doc    .hidden2.doc  .hiddenFile.txt
svpatel@ubuntucis106:~/wildcardpractice$ ls .??*.??
.hidden1.py   .hidden2.py
```

Practice 3

```
svpatel@ubuntucis106:~/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   file.log   sample1.doc
baik.xml      bk.exe      book.pdf   logo100x100.png  sample1.xls
svpatel@ubuntucis106:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
svpatel@ubuntucis106:~/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
svpatel@ubuntucis106:~/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
svpatel@ubuntucis106:~/wildcardpractice$ ls [[:punch:]]*
ls: cannot access '[[:punch:]]*': No such file or directory
svpatel@ubuntucis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
svpatel@ubuntucis106:~/wildcardpractice$ █
```

Expansion

- To Create a whole directory in a single command:

```
svpatel@ubuntucis106:~/wildcardpractice$ mkdir -p music/{jazz,rock}/{mp3files,videos,oggfile}/new
svpatel@ubuntucis106:~/wildcardpractice$ tree music/
music/
├── jazz
│   ├── mp3files
│   │   └── new
│   ├── oggfile
│   │   └── new
│   └── videos
│       └── new
└── rock
    ├── mp3files
    │   └── new
    ├── oggfile
    │   └── new
    └── videos
        └── new

14 directories, 0 files
```

- To Create a N number of files:

```
├── samplejsonfile.json
├── sample.pdf
├── Sample.pdf
├── samplesite.html
├── website1.html
├── website2.html
├── website3.html
├── website4.html
├── website5.html

5 directories, 38 files
vpatel@ubuntucis106:~/wildcardpractice$ touch file [A..Z].txt
vpatel@ubuntucis106:~/wildcardpractice$ touch file {001..10}.py
vpatel@ubuntucis106:~/wildcardpractice$ touch file {{a..z},{0..10}}.js
vpatel@ubuntucis106:~/wildcardpractice$ tree .

├── 001.py
├── 002.py
├── 003.py
├── 004.py
├── 005.py
├── 006.py
├── 007.py
├── 008.py
├── 009.py
├── 010.py
├── 0.js
├── 10.js
├── 1.js
├── 2020-08-27-capture.raw
├── 2021-04-10-screenshot.jpeg
├── 2022-02-02-camera.jpg
├── 2.js
├── 3.js
├── 4.js
├── 5.js
├── 6.js
├── 78food.txt
├── 7.js
├── 8.js
├── 9.js
├── a.js
├── allfiles.lst
├── Allfiles.lst
├── [A..Z].txt
├── baik.exe
```

```
─── book.pat
─── book.xml
─── c.js
─── dir1
─── dir2
─── dir3
─── d.js
─── e.js
─── fail.log
─── file                                    5 / 7
─── file.log
─── file.py
─── file.txt
─── f.js
─── g.js
─── h.js
─── i.js
─── j.js
─── k.js
─── l.js
─── logo100x100.png
─── m.js
─── music
│   ├── jazz
│   │   ├── mp3files
│   │   │   └── new
│   │   ├── oggfile
│   │   │   └── new
│   │   └── videos
│   │       └── new
│   └── rock
│       ├── mp3files
│       │   └── new
│       ├── oggfile
│       │   └── new
│       └── videos
│           └── new
─── n.js
─── o.js
─── p.js
─── q.js
─── _random.csv
─── random_text.md
─── randomtext.txt
─── r.js
─── Sample1234.csv
─── sample123.csv
```

```
svpatel@ubuntucis106:~/wildcardpractice$ touch website{1..5}.html
svpatel@ubuntucis106:~/wildcardpractice$ tree .
.
├── 2020-08-27-capture.raw
├── 2021-04-10-screenshot.jpeg
├── 2022-02-02-camera.jpg
├── 78food.txt
├── allfiles.lst
├── Allfiles.lst
├── baik.exe
├── baik.pdf
├── baik.xml
├── beatk.exe
├── beatk.pdf
├── beatk.xml
├── bk.exe
├── bk.pdf
├── bk.xml
├── book.exe
├── book.pdf
├── book.xml
├── fail.log
├── file.log
├── logo100x100.png
├── music
│   ├── jazz
│   │   ├── mp3files
│   │   │   └── new
│   │   ├── oggfile
│   │   │   └── new
│   │   └── videos
│   │       └── new
│   └── rock
│       ├── mp3files
│       │   └── new
│       ├── oggfile
│       │   └── new
│       └── videos
│           └── new
├── _random.csv
├── random_text.md
├── randomtext.txt
├── Sample1234.csv
├── sample123.csv
├── sample1.doc
├── sample1.xls
```

- Remove multiple files in a single directory:

```
            └── new
    └── rock
        ├── mp3files
        │   └── new
        ├── oggfile
        │   └── new
        └── videos
            └── new
├── n.js
├── o.js                                    7 / 7
├── p.js
├── q.js
├── _random.csv
├── random_text.md
├── randomtext.txt
├── r.js
├── Sample1234.csv
├── sample123.csv
├── sample1.doc
├── sample1.xls
├── sample99.docx
├── samplejsonfile.json
├── sample.pdf
├── Sample.pdf
├── samplesite.html
├── s.js
├── t.js
├── u.js
├── v.js
├── website1.html
├── website2.html
├── website3.html
├── website4.html
├── website5.html
├── w.js
├── x.js
├── y.js
├── z.js

5 directories, 92 files
vpatel@ubuntucis106:~/wildcardpractice$ rm -r {dir1,dir2,dir3,file.txt,file.py}
vpatel@ubuntucis106:~/wildcardpractice$
```