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Week Report 6

Wildcards

The * wildcard: The star alone matches anything and nothing and matches any number of characters.

Examples To list all files with .txt: 1s *.txt To move all files containing .txt to the Documents directory: mv *.txt Documents To list all files in the Documents directory containing the word "games": 1s ~/Documents/*games*

The ? wildcard: Matches precisely one character.

Examples To list all hidden files: 1s . ??* To list all files that have a three-letter file extension: 1s * . ??? To list all files that have two characters between letter g and s: 1s g??s*

The [] wildcard: Matches a character in range. The exclamation point reverses the match.

Examples To match all files that contain a vowel after the letter s: $1s \ s[aeiou] *$ To match all files that do not contain a vowel after the letter s: $1s \ s[!aeiou] *$ To match all files whose name has at least one number: $1s \ *[0-9] *$

Brace Expansion

Brace expansion is another feature of bash that lets you create arbitrary strings to use with commands.

Examples To make a whole directory structure in a single command: mkdir -p games/{shooter,rpg} music/{rock,lo-fi} pictures/{photos-of-my-dog,family} To create a certain number of files: touch food{1..4}.png To remove multiple files in a directory: rm -r {games, music, pictures, docs.docx, words.txt}

Practice 5

```
kevin@kevins-VirtualBox:~$ curl -s https://cis106.com/assets/wildcardpractice.sh | bash
 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
2023-11-16 20:52:24 (89.6 MB/s) - 'logo100x100.png' saved [3520/3520]
kevin@kevins-VirtualBox:~$ cd wildcardpractice
kevin@kevins-VirtualBox:~/wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
kevin@kevins-VirtualBox:~/wildcardpractice$ ls *.txt *.csv
78food.txt _random.csv randomtext.txt Sample1234.csv sample123.csv
kevin@kevins-VirtualBox:~/wildcardpractice$ ls random*.md
random_text.md
kevin@kevins-VirtualBox:~/wildcardpractice$ ls *sample* *.md
random_text.md sample1.doc sample99.docx sample123.csv sample1.xls samplejsonfile.json
                                                   sample.pdf
                                                   samplesite.html
kevin@kevins-VirtualBox:~/wildcardpractice$
```

Practice 6

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```
kevin@kevins-VirtualBox:~/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
                                             _random.csv
78food.txt
                        beatk.exe
                                   book.exe
                                                               sample.pdf
allfiles.lst
                        beatk.pdf
                                   book.pdf
                                             randomtext.txt
                                                               Sample.pdf
Allfiles.lst
                        beatk.xml
                                   book.xml
                                             Sample1234.csv
                                   fail.log
baik.exe
                        bk.exe
                                             sample123.csv
kevin@kevins-VirtualBox:~/wildcardpractice$ ls .??*
                             .hidden2.py
.bash_history .hidden1.py
.hidden1.doc
               .hidden2.doc .hiddenFile.txt
kevin@kevins-VirtualBox:~/wildcardpractice$ b??*.???
baik.exe: command not found
kevin@kevins-VirtualBox:~/wildcardpractice$ ls b??*.???
baik.exe baik.xml
                     beatk.pdf
                                book.exe book.xml
baik.pdf
         beatk.exe beatk.xml
                                book.pdf
kevin@kevins-VirtualBox:~/wildcardpractice$ sample?.*
sample1.doc: command not found
kevin@kevins-VirtualBox:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
kevin@kevins-VirtualBox:~/wildcardpractice$ ls .??*.??
.hidden1.py .hidden2.py
kevin@kevins-VirtualBox:~/wildcardpractice$
```

Practice 7

```
kevin@kevins-VirtualBox:~/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
                         book.pdf logo100x100.png sample1.xls
baik.xml
              bk.exe
kevin@kevins-VirtualBox:~/wildcardpractice$ ls {A-Z]*[0-9]*
ls: cannot access '{A-Z]*[0-9]*': No such file or directory
kevin@kevins-VirtualBox:~/wildcardpractice$ ls [A-Z]*[0-9]*
Sample1234.csv
kevin@kevins-VirtualBox:~/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
kevin@kevins-VirtualBox:~/wildcardpractice$ ls [!AEIOU]*[!aeiou]*
2020-08-27-capture.raw
                            beatk.exe book.xml
                                                        sample123.csv
2021-04-10-screenshot.jpeg
                            beatk.pdf
                                       fail.log
                                                        sample1.doc
2022-02-02-camera.jpg
                            beatk.xml
                                       file.log
                                                        sample1.xls
78food.txt
                            bk.exe
                                       logo100x100.png sample99.docx
allfiles.lst
                            bk.pdf
                                       random.csv
                                                        samplejsonfile.json
                                       random text.md
                                                        sample.pdf
baik.exe
                            bk.xml
baik.pdf
                            book.exe
                                       randomtext.txt
                                                        Sample.pdf
                            book.pdf
baik.xml
                                       Sample1234.csv
                                                        samplesite.html
kevin@kevins-VirtualBox:~/wildcardpractice$ ls [[:punct:]]*
random.csv
kevin@kevins-VirtualBox:~/wildcardpractice$
```