

2018-03-02 BCBGSO Basic Unix Workshop Exercises

Exercise 1:

1. Change your present working directory to exercise1
2. Visit a place you've never been to before by changing directories
3. **List** all the locations in that directory
4. "Travel" directly to another "country" FROM YOUR CURRENT COUNTRY
5. Identify the **absolute path** to the file "Carmen-Sandiego.txt"
6. Identify the **name** of the **largest FILE** in exercise1
7. Determine what happens when you go up one level from your home directory

Exercise 2:

1. Make a directory called exercise2
2. Change directory to your newly-created exercise2 directory
3. Make a directory called keep in exercise2
4. Make all the directories in the path: bcbgso/basic/linux/workshop
Can you do this without changing directories?
5. Make a file called "memories.txt" in the workshop directory. Can you do this without changing directories?
6. Remove "memories.txt" without changing directories
7. Remove the directory bcbgso

Exercise 3:

1. Navigate to exercise3 and **list** the files in the directory in such a fashion that you can see the file size
2. Each file contains information about a mountain, including which mountain range it belongs to and its elevation, and in some cases, how deadly it is. Based on the size of the files, determine the best method to use to **read** the relevant contents of each file (i.e., should you use cat or head on that 409KB file?)
3. **Make** a folder called shortest-mountain. **Copy** the shortest mountain (out of the five files listed) into this folder.
4. **Make** a folder for each mountain, that contains the name of the mountain range it belongs to. Example: For Mount-Everest.txt, you will create a folder called Himalayas
5. K2 has two other names – Mount Godwin-Austen, and Chhogori. **Create a copy** of K2.txt called Chhogori.txt in its appropriate mountain range folder.
6. Then **move** K2.txt into the appropriate folder, but rename it Mount-Godwin-Austen.txt.
7. **Move** the remaining mountains into their proper folders, no additional renaming needed!
8. **Make** a folder called deadliest-mountain. **Copy** the deadliest mountain's file into this folder.
9. **Run** the script "check_exercise_3.sh" to determine if you've done everything correctly.

Exercise 4:

1. **Navigate** to exercise4
2. **Make a file** called Mario.txt
3. **Find** the file Bowser.txt
4. **Move** Mario.txt to the location of Bowser.txt

5. **Output the text** of Bowser.txt to your terminal to determine how to 'defeat' Bowser

6. Defeat Bowser.txt

7. **Find** the file Princess-Peach.txt and **move** it and Mario.txt to exercise4/mushroom-kingdom/castle/

8. Lock down (by changing permissions) mushroom-kingdom/castle so that no one (including you) can enter!