Collections Workshop

**Set up:**

Extract the collections-workshop.zip file in a folder so that later you can push it in your branch.

To open the workshop project with IntelliJ, go to File/Open and select the warm-up folder that you just extracted from the archive.

**Exercise 0 (exercise/exercise0/Exercise0.java):**

Iterate over the keys of a Map using keySet method (this method returns a Set of all the map keys).

**Exercise 1 (exercise/exercise1/Exercise1.java):**

You have a Map<String, String> that holds in each element a country with its capital (countries Map)

a) Find all the countries that start with 'R' character, iterating through the keys of the Map using keySet() method

b) Find all the countries that start with 'R' character, iterating through the keys of the Map using Map.Entry, and convert all the characters of the countries found to lowercase

c) Find the capital city with the longest name, iterating through the values of the Map (values() method)

**Exercise 2 (exercise/exercise2/MyList.java):**

Overriding equals() and hashCode() methods.

Create a Set and a Map and add some elements to them before and after overriding equals() and hashCode().