Week 10 - Collections part 1

Topics covered in this week

- Arrays vs. collection objects
- Lists
- Sets
- generic arrays
- equals vs. hashcode (complete version)

Reading material

- https://beginnersbook.com/java-collections-tutorials/
- https://www.journaldev.com/1260/collections-in-java-tutorial
- https://www.vogella.com/tutorials/JavaCollections/article.html
- https://www.journaldev.com/21095/java-equals-hashcode

Homework

	Problem	Notes
EASY	Create a class Country containing two attributes: Name and Capital, both Strings. • Make it comparable so that the comparison only cares about the country's name. Fill an ArrayList with objects of your class. Demonstrate using tests that sorting works properly. • Now extend the current solution (without touching the code written for the previous bullet) that only cares about the capital and demonstrate that sorting works properly. Perform a binary search for the country whose capital is Paris. (Don't forget about the test)".	