Week 4 Additional Resources for Maps

(Make sure to view slides before)

API for Maps - https://docs.oracle.com/javase/8/docs/api/java/util/Map.html

Readings + Code on Maps, Hashmaps, etc. -

1. Coding methods of map and explanation
    a. https://www.javatpoint.com/java-map
2. Coding methods of hashmap and explanation
    a. https://www.tutorialspoint.com/java/java_hashmap_class.htm
3. Coding methods of hashmap and explanation
    a. https://howtodoinjava.com/java-hashmap/
4. Explanation of function of map methods
    a. https://hellokoding.com/java-hashmap-tutorial-with-examples/

Readings + Code for Implementation of Maps, Hashmaps, etc.

1. Princeton University lecture slides (many topics covered in class at more elementary level, but will help you understand what's happening conceptually) → includes implementations, and methods, etc. what were discussed in class
    a. https://www.cs.princeton.edu/courses/archive/fall19/cos226/lectures/31ElementarySymbolTables.pdf
    b. Binary Search Trees (BSTs) explanation- https://www.cs.princeton.edu/courses/archive/fall19/cos226/lectures/32BinarySearchTrees.pdf
2. Great video on BSTs (linked in presentation)
    a. https://www.youtube.com/watch?v=P3YID7liBug
    b. Will help you understand runtime and logic behind algo in easier way
    c. For ordered list implementation → need to understand how binary search works
3. BST implementation of map (more advanced)
    a. http://www.mathcs.emory.edu/~cheung/Courses/323/Syllabus/Trees/bin-tree-review.html

Generics in Java - https://www.tutorialspoint.com/java/java_generics.htm