**Worksheet Task #1**

Create a program that randomizes an array of 1000 integers from 1 to 1,000,000 and verify the uniqueness of its elements using the brute force algorithm

Repeat the program, but now use the transform-and-conquer version of the algorithm

**Worksheet Task #2**

What if you must find the Mode within a sorted array?

Create a function that receives an array of numbers, sorts this array and returns the mode

Make sure your code is less complex than the brute force algorithm

**Worksheet Task #3**

Create a method to the AVLTree class that prints out the elements using a depth-first post order tree traversal

Save a new version of the AVLTree class with your new method and create a main function to demonstrate your method call and result