CMPE 211 - Data Structures and Algorithms

Lab Exercise

You are given ThreeSum, ThreeSumFast, StopWatch and Test classes.

- 1. Examine the ThreeSum and ThreeSumFast algorithms, understand what they do, how they work and examine the differences between them.
- 2. Implement TwoSum and TwoSumFast algorithms based on ThreeSum and ThreeSumFast algorithms.
- 3. Calculate all four algorithms' running times analytically.
- 4. Compare their running times experimentally with different data sets given in Test class.

Bonus: What if we had duplicate values in the dataset? How should we modify the code in order to deal with duplicate data?