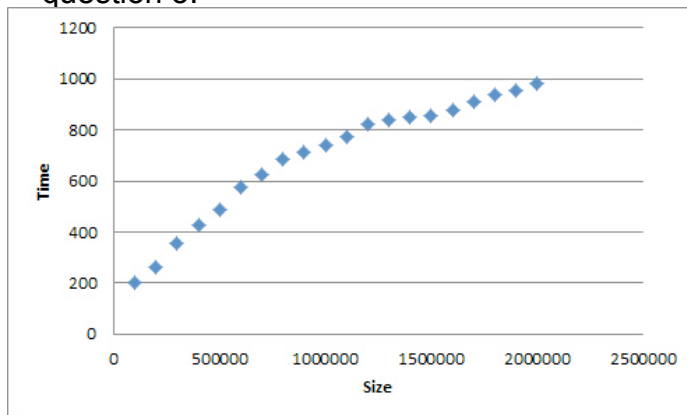


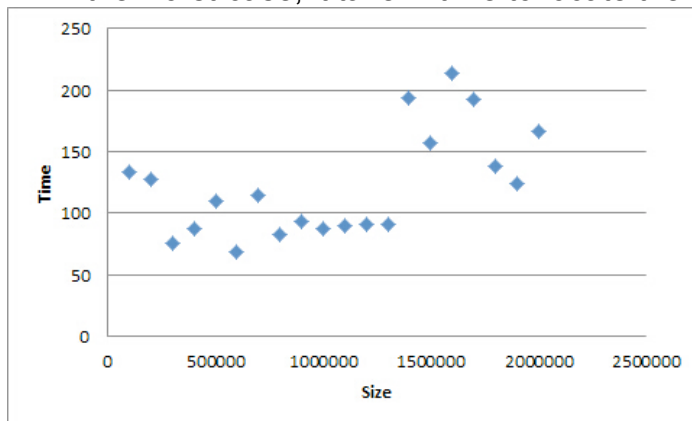
CS 2420-001 Spring 2015
Shibo Tang
2/5/2015

analysis document for assignment 3

1. My partner name: Trevor Chapman. My partner will submit the source code for this assignment.
2. We switched our roles about 3 times for this assignment. We would prefer to switch roles more. Because if we switched our roles often, we will have more chances to practice our coding skills.
3. I think my partner is a kind person who likes help me with my issues patiently. I will work with this person again.
4. I think MySortedSet is more efficient than the arrayList and Linked List. Because I tested how long it will take to add same numbers into MySortedSet, arrayList and LinkedList. The result is MySortSet takes less time than the Java List.
5. I expect the Big-O behavior of MySortedSet's contains method to be $\log(N)$, because it only take half time to find the target.
6. The growth rate of these running times match the Big-oh behavior predicted in question 5.



7. In the worst-case, it take N time to locate the position to add an element.



8. I spent 12 hours in this assignment.