Jeremy Anderson

Analysis Assignment 2

1. My partner is Keanu Interone. Keanu will be submitting the source code.
2. We switched roles 2-3 times. I think that we switched roles that correct amount of time. We worked hard and when one of us was tired we would switch roles.
3. Keanu is a great guy, but I don't know he we work well together yet. Our knowledge bases are the same or so it seems so it is hard to build off each other.
4. The main points that would of differed are that list interface contains, all the methods that we had to create for this class except for the binarySearch method. It would have been much more efficent because we wouldn't of had to implement any of the other methods.
5. I expect the big o behavior to be O(NlogN), this is because the contains method calls the binarySearch method that we created. The binarySearch method takes the number of items and divides that number by two every step.
6. The plot times do show that my analysis is correct in question 5(See plot Below)
7. The average time to add a number was 480 nano seconds with the size of 1000000. The worst case scenario is log(n) because is have to go through the search twice.
8. We spent about 14 hours on this assignment