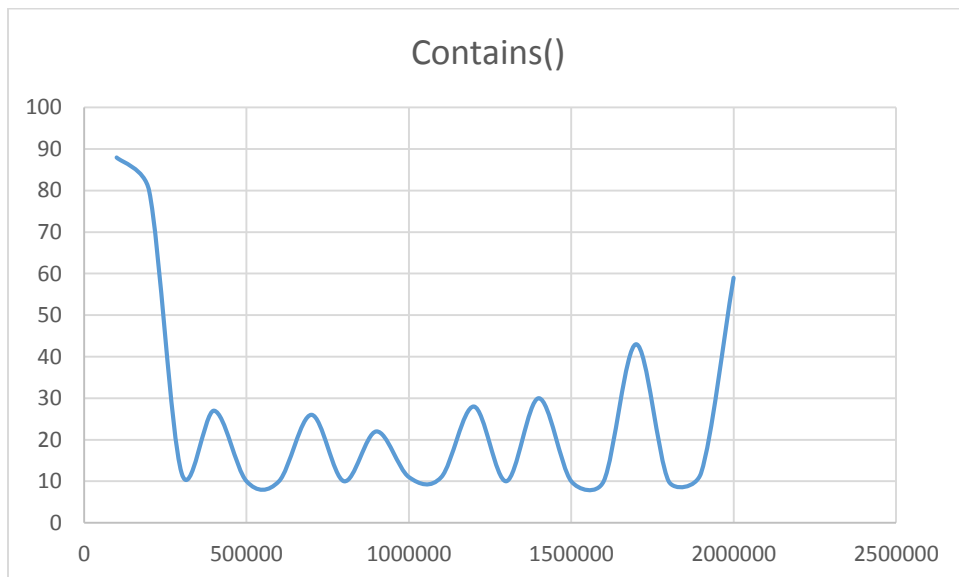


Yan Tan

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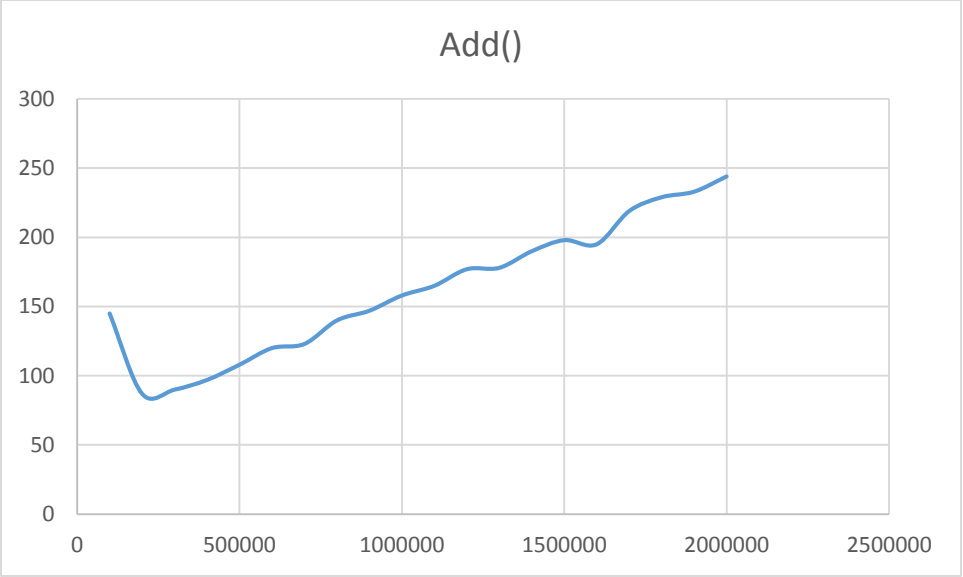
### Assignment 3

1. My partner is Boqian Yao. Boqian Yao is the one who submits the source code.
2. We discussed together so it is hard to distinguish our roles. When we need to solve a problem, we will express our thoughts and find the way to solve together. It saves time too.
3. My partner is very good at this assignment. I was confused a lot because this assignment is a little abstract to me. There are many ways to accomplish, and I feel that I did not know how to start. My partner Boqian Yao can quickly come up with a good start and help me understand this assignment. I plan on work with Boqian Yao again.
4. The most important difference is that we do not need to double the size of ArrayList, because ArrayList will not be full. This can save the time a lot and be more efficient
5. In average case, I expect contains() would be  $O(\log n)$ , because binary search is used in this method.
- 6.



Not really match big o behavior.

7.



8. We spent about 11 hours.