

Aleksander Vargas is my programming partner, and I, Nate Merrill, submitted the source code. I ended up coding more than my partner. I made it a task for myself to try to have a time limit, but my partner would always try to push the work back on me. I would have preferred to spend more time as a navigator so I can have more experience in that specific role.

My partner consistently missed class and meeting dates, meaning that I was forced to either work solo or explain what we did in class so he could understand the assignment and the progress we were making, which lead to a majority of the work being done by myself. This was unorganized and proved to be a hassle with balancing my other classes. Alongside this problem, Aleksander also placed the duty of going to office hours on my shoulders in order to understand parts of the assignments because he would either not show up, or was at work. Due to having conflicting schedules and a unreliable partner, I will no longer be working with Aleksander.

Since list gives programmers full control over where objects are inserted, this allows for easier insertion methods. This would have made adding new objects much easier and faster during run time. However, list contains duplicates while sets do not. This means that programming time would be extended in the contains method because we have to make sure not to add a new rendition of the object.

I expect it to run at $O(\log N)$ because we are separating the list in half and according to my tests, MySortedSet's Big-O behavior is of $O(\log N)$. Yet, the worst case is $O(\log N)$. I approximately spent around 10-12 hours on this assignment, though it is possible that I spent 5-7 hours with my partner programming.