

## Analysis Document: Assignment 3

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My programming partner was Austin Chen again. I submitted the source code. We didn't switch roles at all, we worked as a team and we both worked on it an equal amount of time. We also helped each other with ideas and thoughts on how to complete various methods. Even though I was sick, we still chatted through text, and talked about the assignment before making any changes. I honestly liked how we did it this time. We both put full efforts into it, and even though we turned it in late, we still feel like our code was perfect and professional like. I think my programming partner was absolutely amazing. We had time to meet up and work together, we could easily find mistakes in each others reasoning, and we just worked together since it was already our second time working together. I would definitely work with Austin again, he is a great partner and becoming a great friend.

I honestly believe that the assignment would have been much easier, I mean we would already have a lot of our methods done, and it would also be easy to make it generic, instead of constantly using casts and various other coding skills. I feel like the assignment would have taken much less time and it would have been more efficient, but this way we learned what is backing everything in java, and how to do it ourselves, which is more important.

I feel like our Big O will be fairly good since we used time consuming code much less, and used the binary search much more, which was way more efficient. I believe the add method runs somewhere between  $n$  and  $n^2$  time, simply because it has to keep calling binary search. I believe we spent around 10 hours on this assignment.