

1. Adrian Clark. I'm submitting the code.
2. We didn't change role. I like switching role because it is going to give both people responsibility of the code.
3. We didn't make our work go well because we both are poor at writing a code. That's why, we couldn't reach at the end of the coding. I think we should have started programming earlier.
4. I think that if we use java List, the running time is shorter because everytime we use Java list, every method in there is more efficient than my code.
5. I expect $\log N$ because it is binary search, so every time we call for loop inside of the method, the size of the list is divided by 2.
6. I'm sorry I couldn't finish up my code.
7. I'm sorry I couldn't finish up my code.
8. 15 hours.