

Individual Report

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In this coursework, I was designated to work on Q2b as my task. After glancing through the question, it was not long to determine that AVL Tree was the solution as it fits most of the criteria with its $O(\log n)$ process time on insertion/deletion and $O(n)$ for its in-order traversal.

After discussion with the group, we made up the decision that we want to create pseudocode to further explain on how does the software works. After I finished the solution, I start to get my hands on the pseudocode with the help of the new member, Chan Yu Xuan.

I worked on the code for Insertion & In-order traversal, and with the help of the visualizer from VISUALGO, I was able to finish it in no time, though was forced to cut off some part that are less relevant to the question (e.g. rebalance) as it would take up too much space towards the page limit. After finishing my part, I helped out with others to check and give suggestion on their code also.

Throughout the whole coursework, I was able to understand more about the Binary Search Tree and AVL Search Tree and the ways of implementation for it.