

### Project 6 – Binary Search Trees

This project I felt very prepared to take on the task, as we were given a lot of help with the functions we would be implementing it, and as well with this, there was a lot of information online to learn about binary search trees. The project in general, was at first kind of difficult to understand but after a little bit of picture drawing and looking how the nodes connect, I realized it could be quite simple. In class we went over ways to do most of our functions with recursion, and so I went this route with my program. The functions that I really had trouble with, were of course the ones that do the most stuff; the add and remove. The add function was a something that required me to sit down and draw out what the whole entire problem and trace out what it is that I was doing. The remove however, was something I struggled the most with. When going about the remove I had sort of the same tactic as the add, using recursion and making sure I moved the links around where I needed them to be, however even after I got my simple remove to work, I then had to find a way to clear these trees, which at first was quite difficult because you had to keep track of what numbers were in your tree, remove the overlapping values from the tree, know what values you previously removed, and then clear the rest of the numbers by value.