



**Project I:**

**Efficiency of basic operations based on  
BST, AVL and Splay Trees**

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# **1 Introduction**

In this project, we implement three types of binary search trees: BST, AVL Tree, and Splay Tree as well as some basic operations on them including insertion, deletion and find. We then conduct experiments to compare the efficiency of a series of these operations on the three types of trees.

## **2 Algorithm Specification**

## **3 Test Design**

## **4 Test Results**

## **5 Analysis and Comments**

### **Declaration**

We hereby declare that all the work done in this project is of our own independent effort.