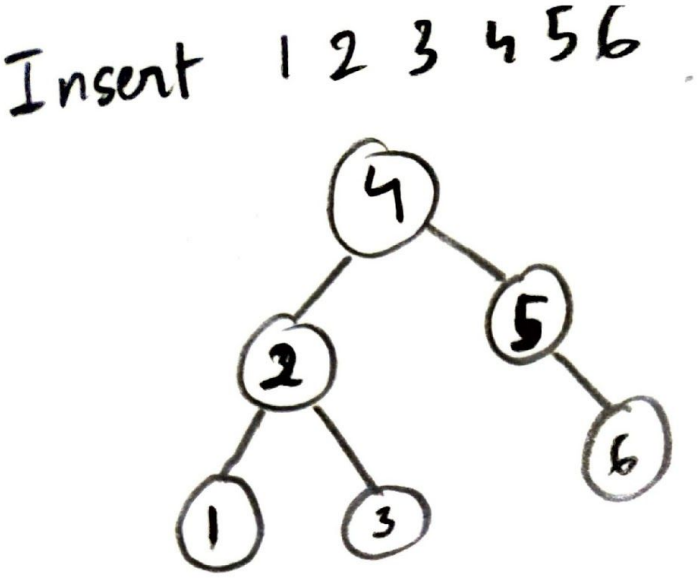
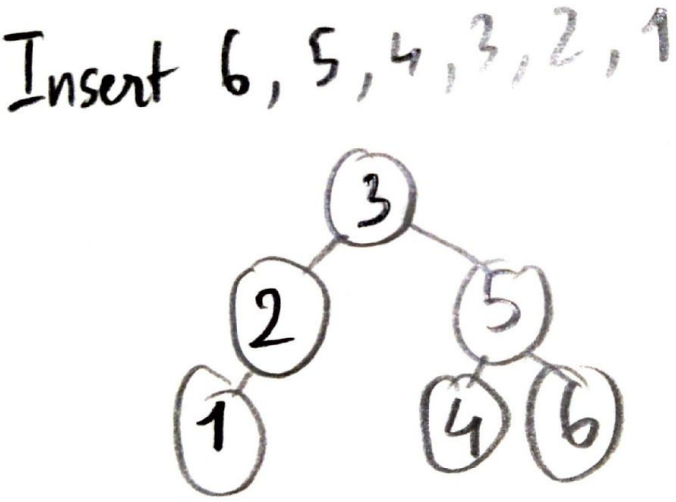
Name: Lam Dang
For: CS345 Lab1
Writeup

Write up #2a:
Advantage: AVL Tree always balances itself, therefore it will make sure that the search method will operate in O(logN).

Disadvantage: Insertion and Deletion will be slow due to a lot of pointer changes and rotation that happens every time insertion/deletion is called.

Writeup #2b:





,

#Writeup 3b
Since AVL Tree is a self-balance tree, the look-up time of AVL will always have the worst case of O(logN). Therefore, AVL tree is extremely useful for cases where we need to do a lot of look-up (especially in database). Therefore, I used the old example from Lab1 to demonstrate and prove how the case can be more effective with using AVL.