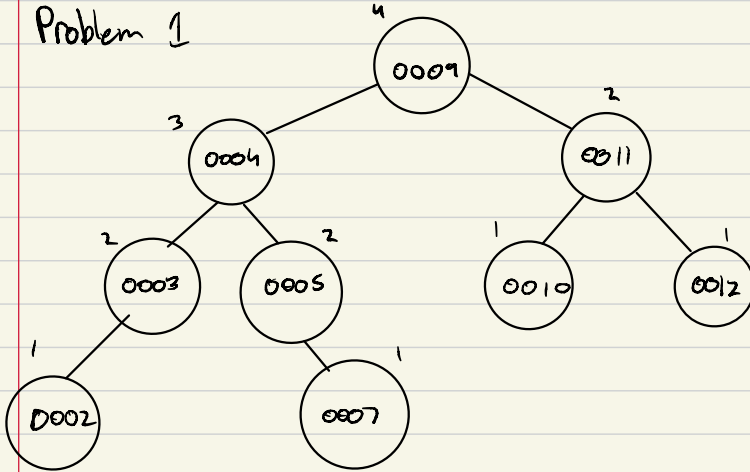
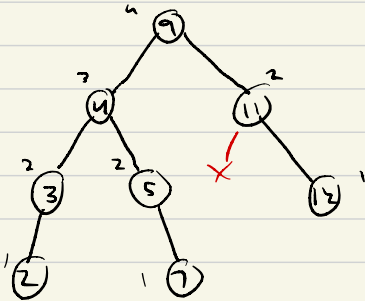


Problem 1

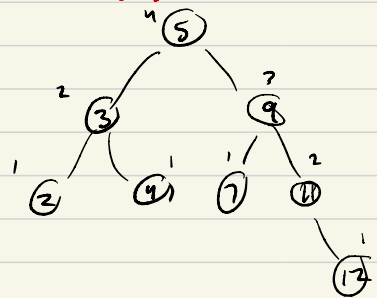


Remove 10
 Insert 13
 Insert 6
 Remove 9
 Insert 14
 Remove 11

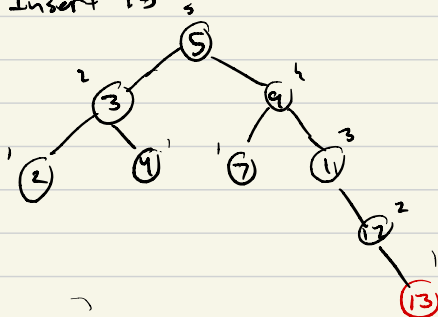
Remove 10



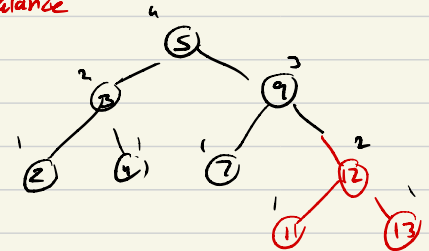
Balance



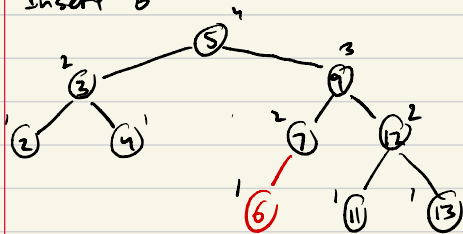
Insert 13



Balance

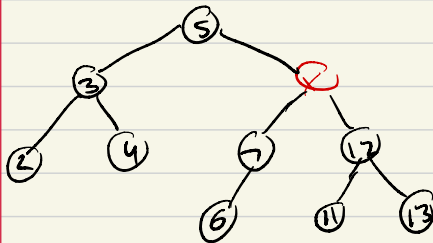


Insert 6

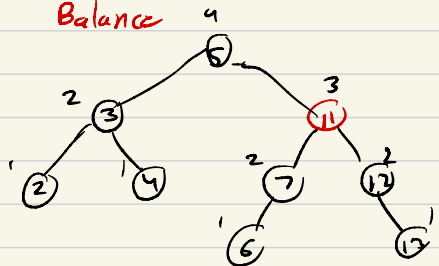


Already Balanced

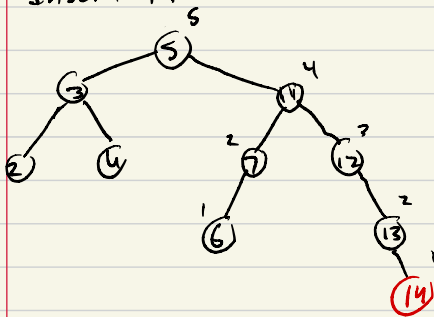
Remove 7



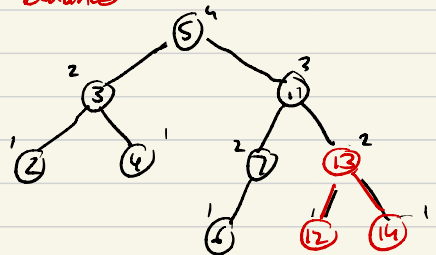
Balance



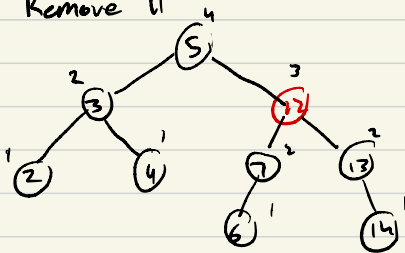
Insert 14



Balance



Remove 11



Already Balanced

12 gets promoted as it is the successor to 11. Smallest value of right subtree

