

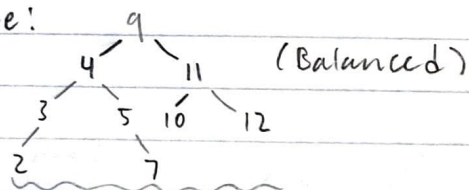
Alexander Deng

Goodney CS104

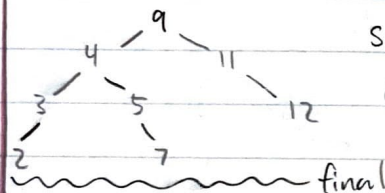
HW4 - Problem 1: AVL Trees

10/21/22

Initial Tree:

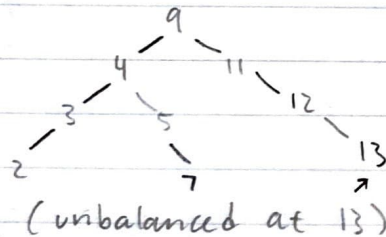


Remove 10:

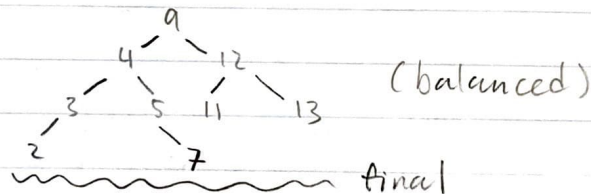


Since 10 is a leaf node. Remove.
(Balanced still)

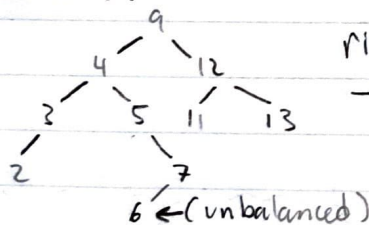
Insert 13:



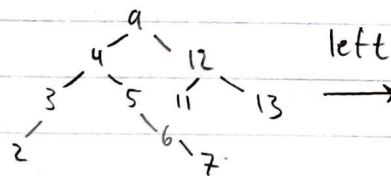
left-left
→



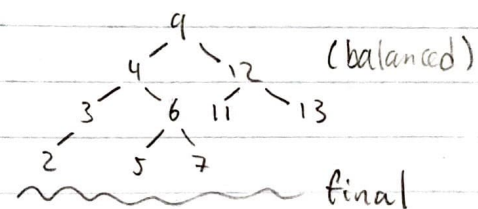
Insert 6:



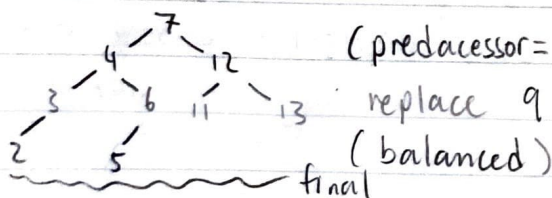
right
→



left
→



Remove 9:

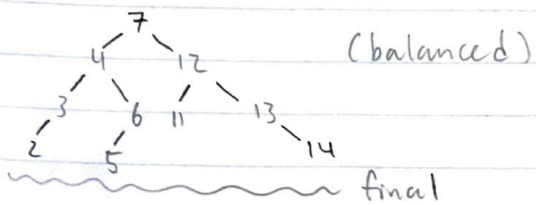


(predcessor = right-most on left sub-tree = 7)

replace 9 with predcessor.

(balanced)

Insert 14:



Remove 11:

