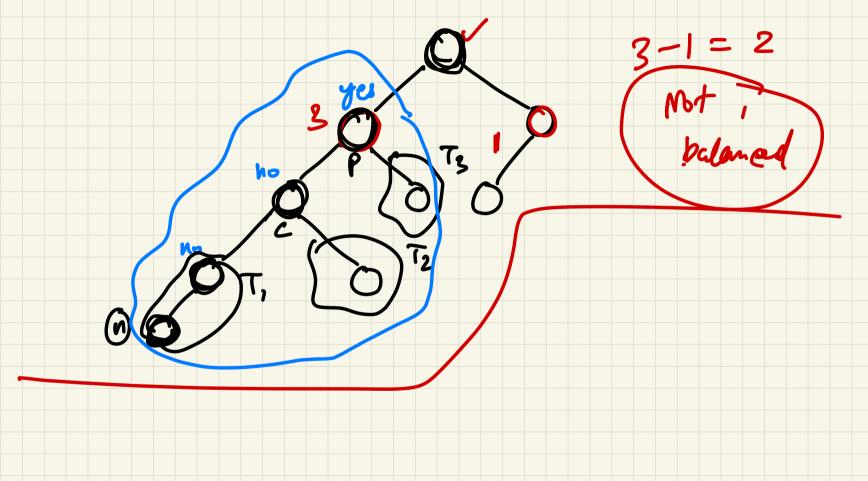
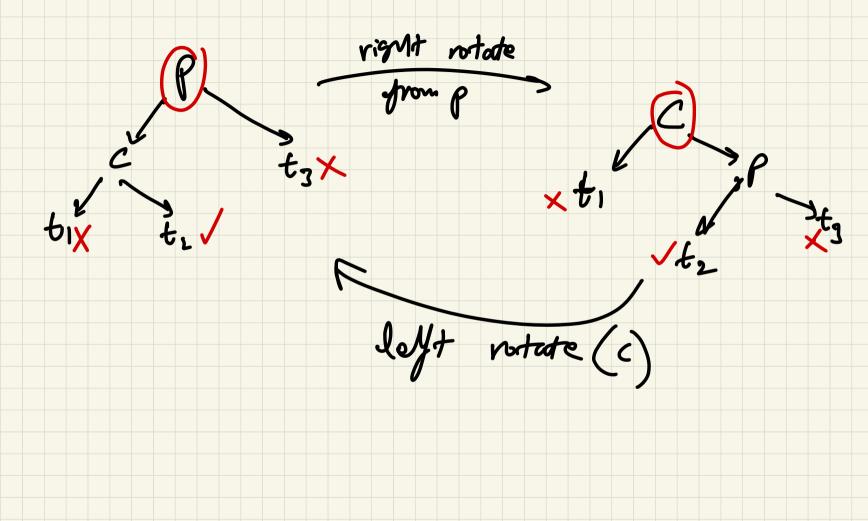


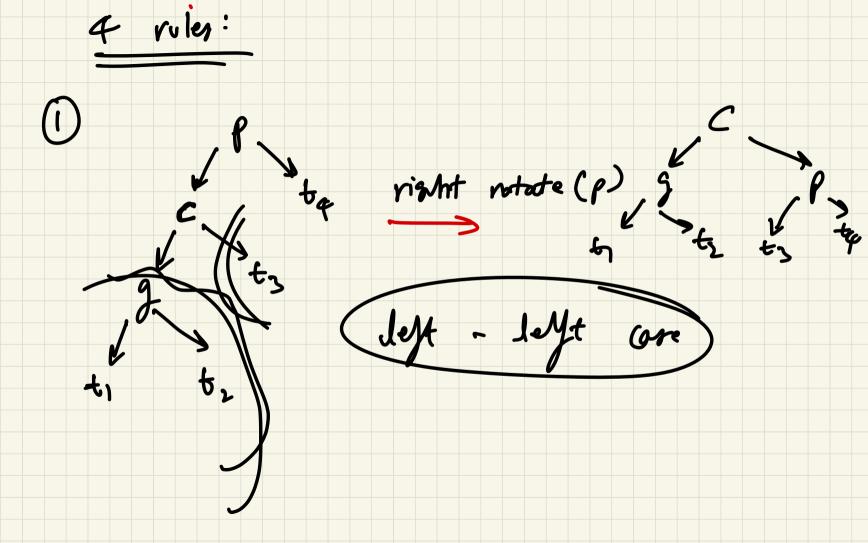
for every Node, h(J) - h(r)7 -1, 11, or 0 For every Node in the tree, the diff in neight of left and right surforce of that node, $\leq 1 \Rightarrow$ Balanced tree.

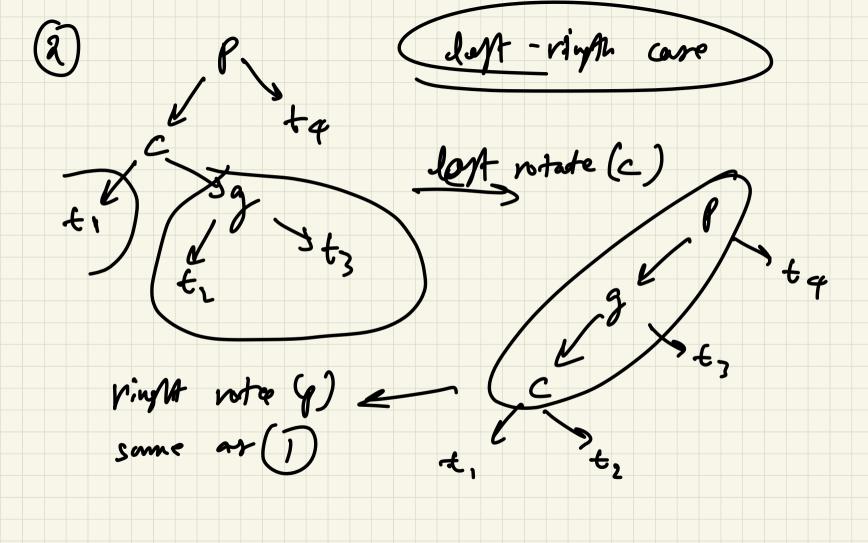


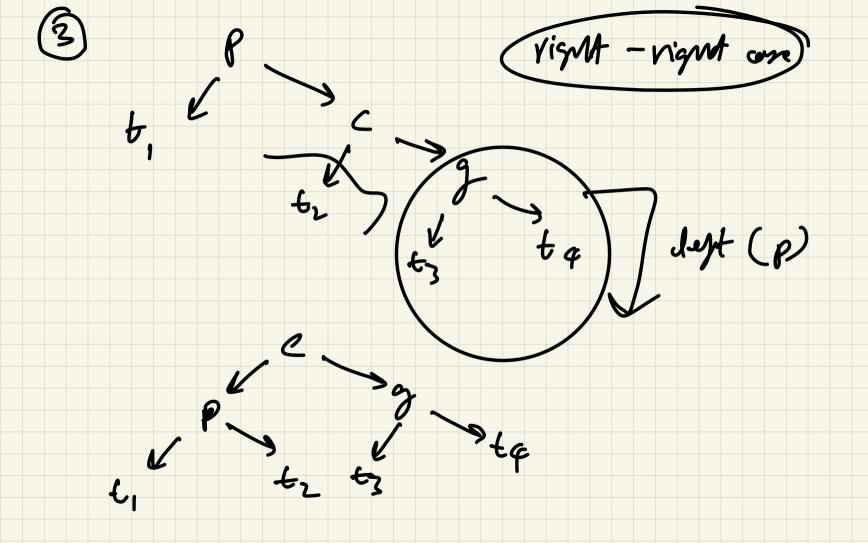
Sey balancy Dinary trees Example: AVL Solution ? Adelson-Velskii and Candis

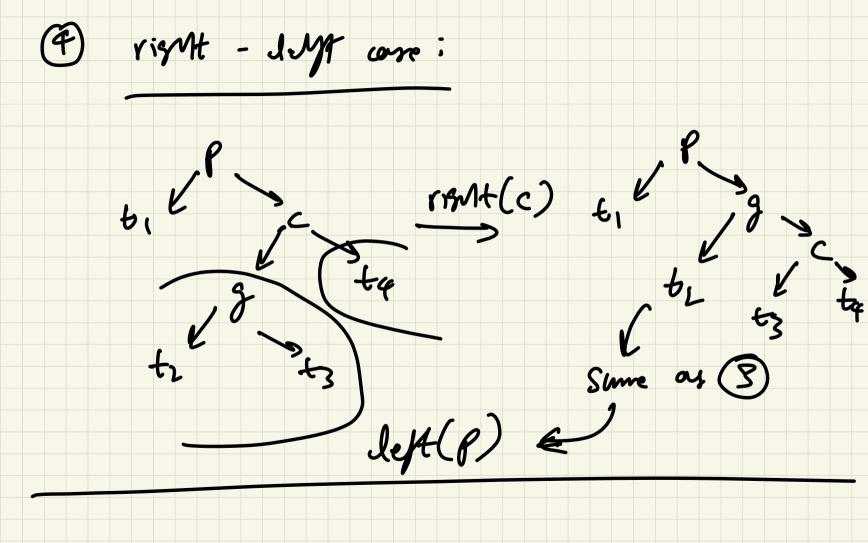


Algorian 1 Insert normally, node (i) (2) Stort from node (i) & find the mode that makes the me unbelon we, better up. (3) ving me of the @ ruler; rotate.

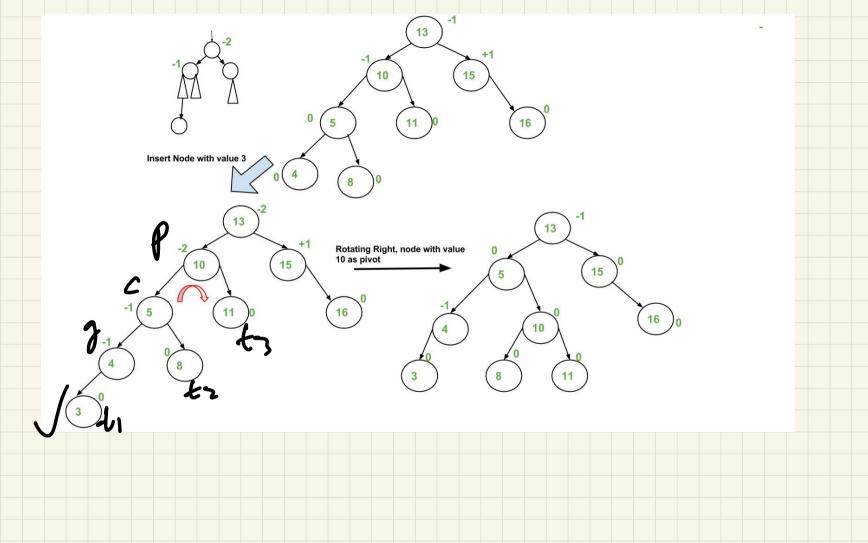


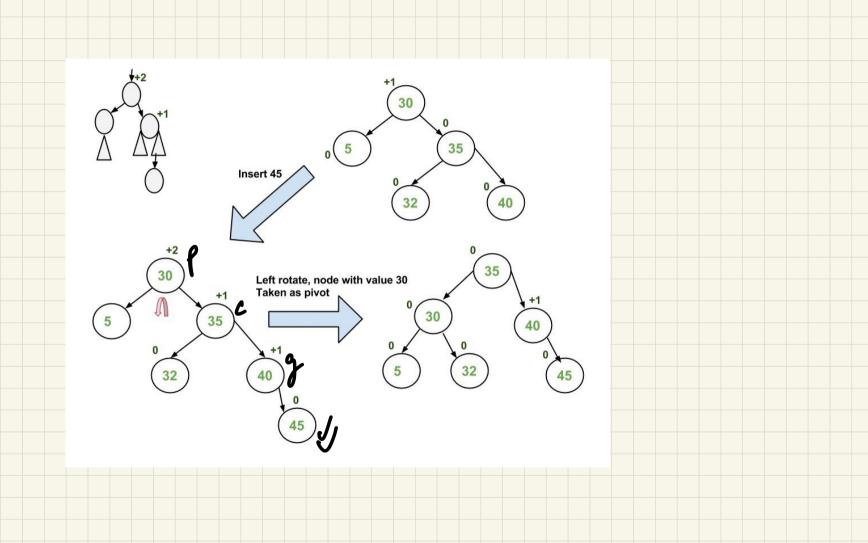


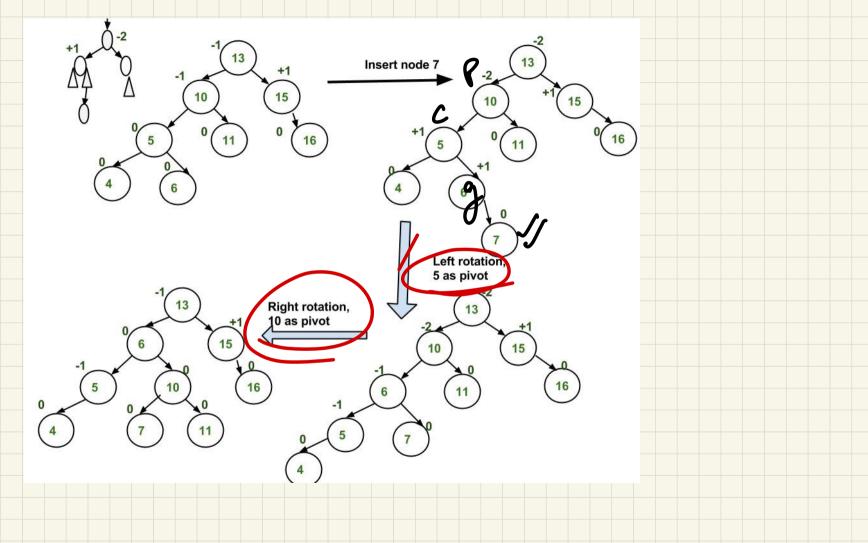


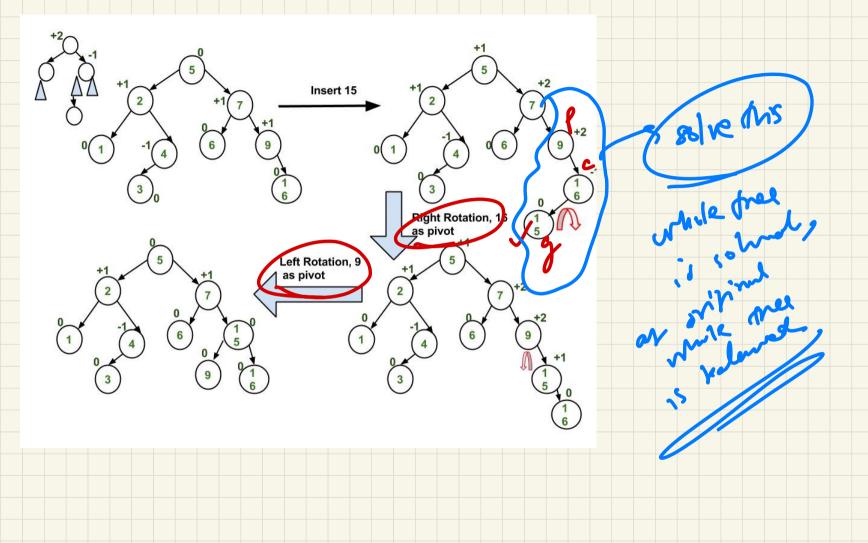


Example: Insert Node with value 14 15 15









Time complexity: log (N) + o(1)