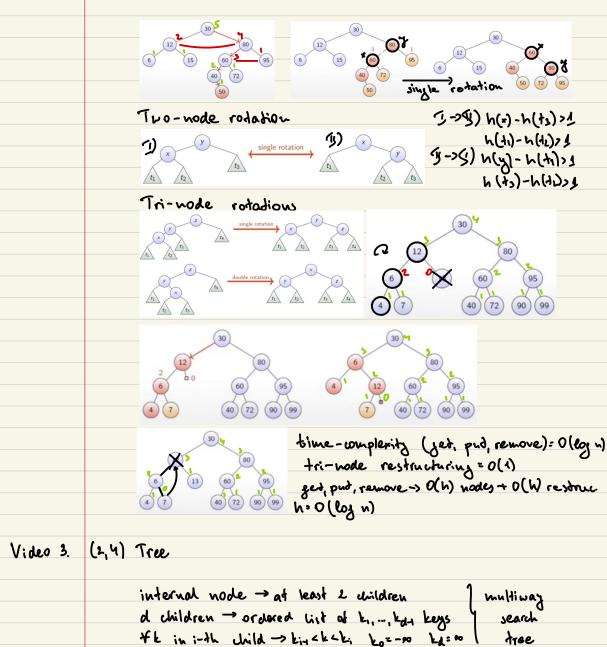
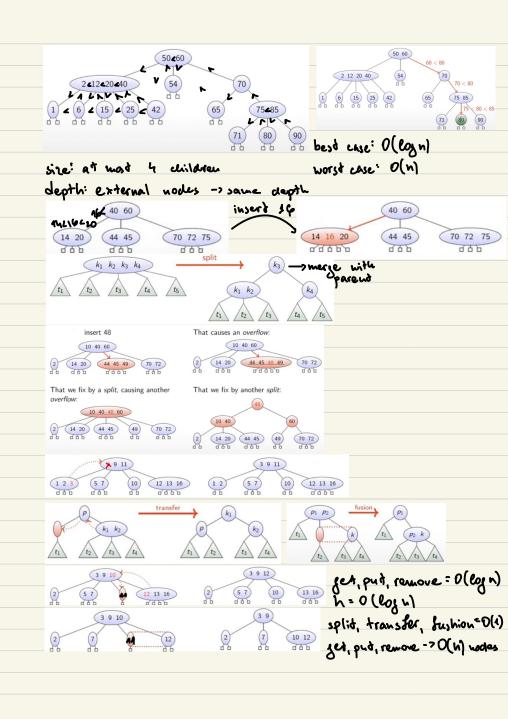
Binary Learch Tree Video 1. Ynode with key k: -> keys in ledd subtree < k -> Legs in right subtree > k maxinal node in left child swap with unde to be removed rearrively remove the node recensence equation: T(0)=co T(n)=T(h-1)+c chosed form: T(h)=hc1+co => time complexity O(h) height of best case O(log w) worst case O(n) Video 2. AVL Tree Adelson-Velskii and Landin AVL Balance condition: the heights of the children shel null references as leaves insert 50 z





Red-Black Tree Video 4. root property: the root is black external property: every lead is black red property: the children of a red node are black depth property: all leaves have the same block fet, put, remove = 0(egu)
hight = 0(log u)
recoloring = 0(1) Jed, put, remove->0(h) works