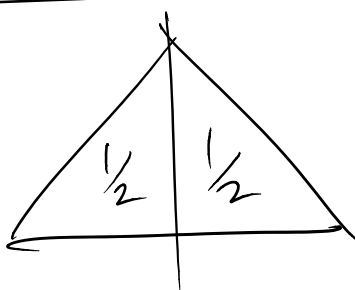
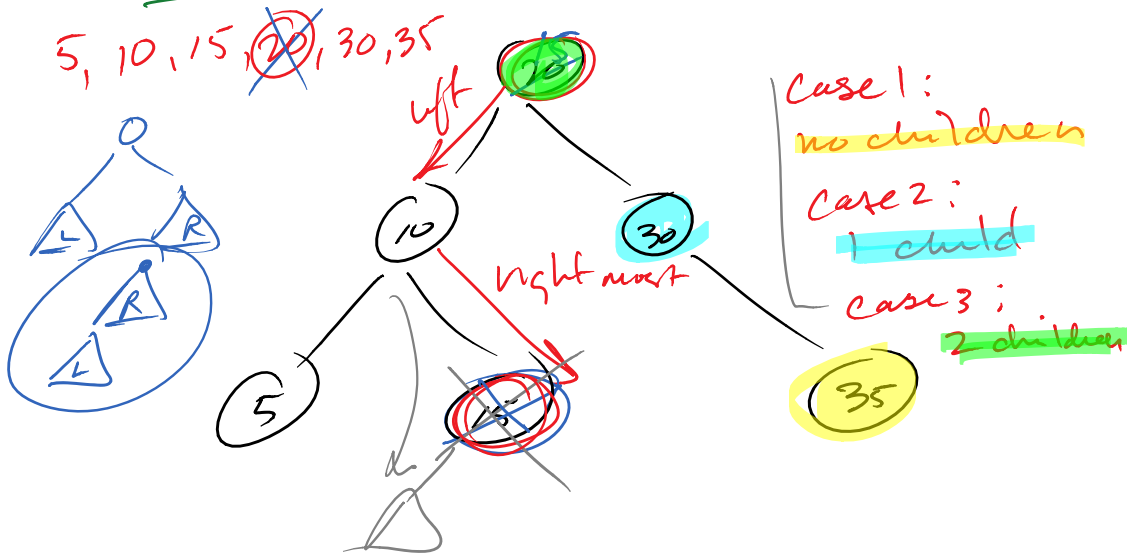
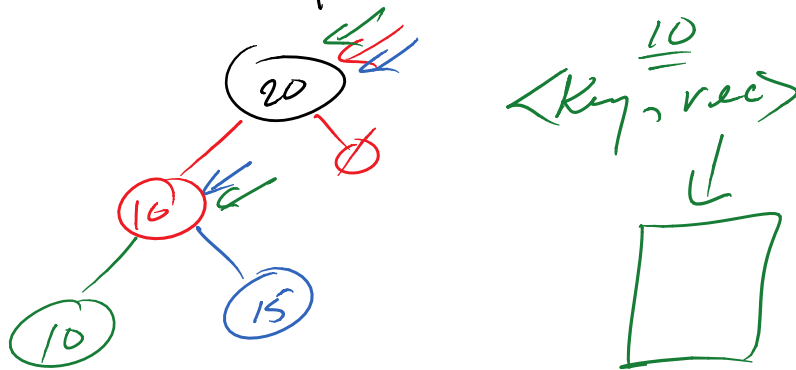
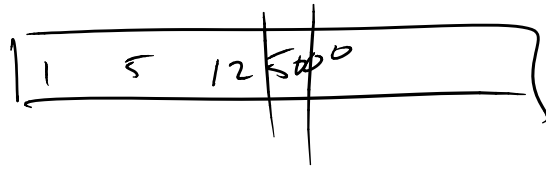


Binary Search Tree (BST)

A BST is a ordered binary with property that value in root of any subtree \geq all values in left subtree and $<$ all values in right subtree.



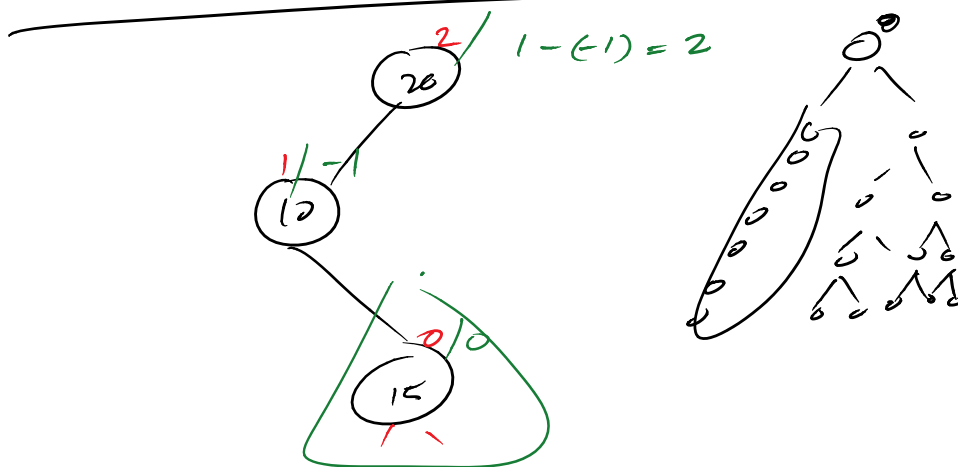
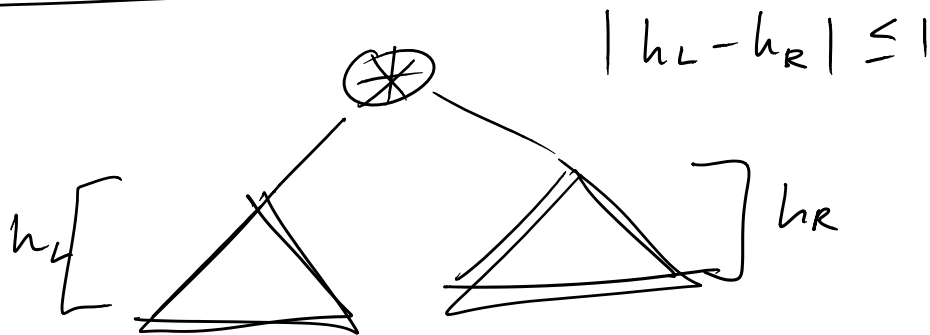
$$\log_2 n \approx h$$



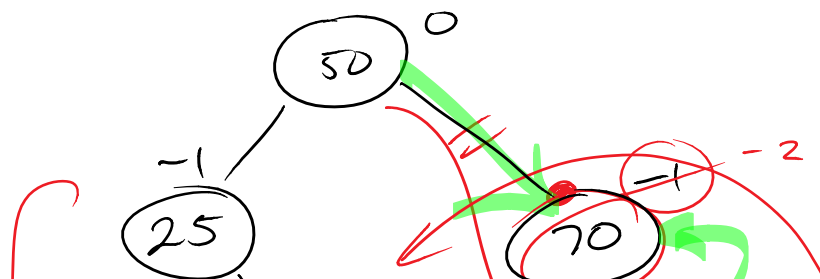
Height Balance Tree

AVL Tree (1960)

↑ Adelson Velski Landis



$bf = h_L - h_R$ (-1, 0, 1)



$h_R = 2 \Rightarrow 3$

