## **AVL Tree**

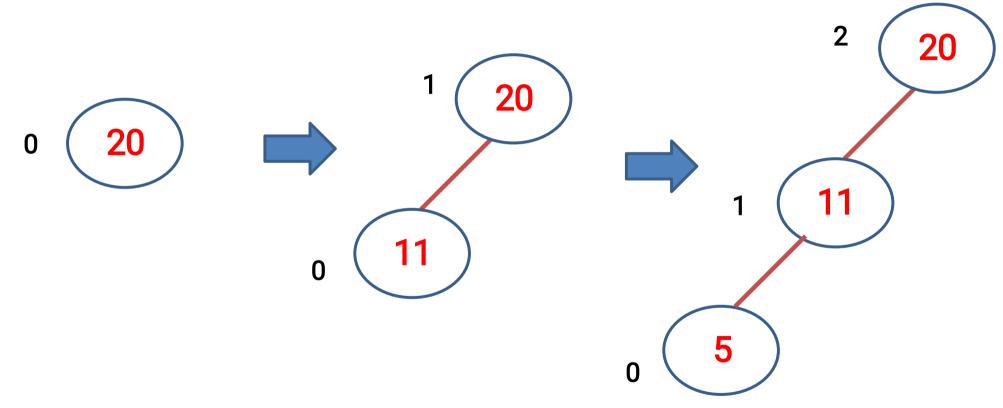
Radhesyam vaddi



## **AVL Tree**

Construct AVL Tree with following data

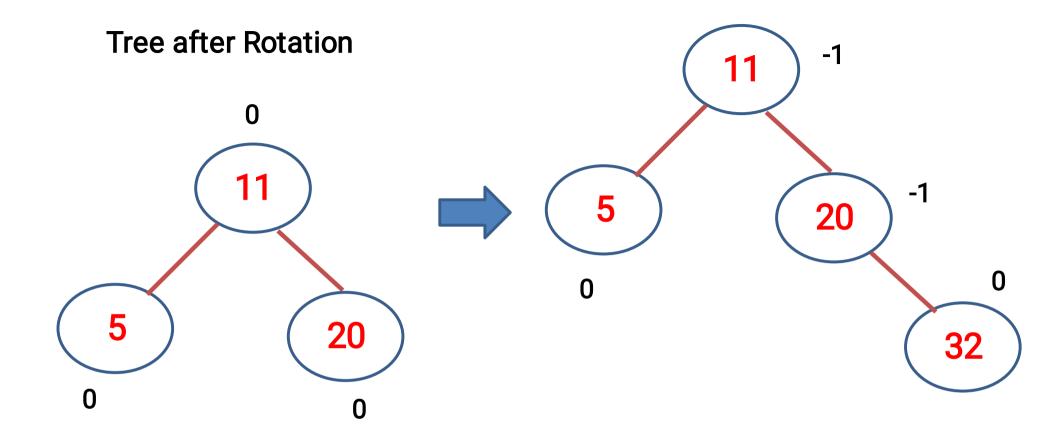
• 20,11,5,32,40,2,4,27,23



Now tree became Un balanced
So Need to Perform Rotation
Edit with WPS OfficeL Rotation means (Right
Rotation)

Left

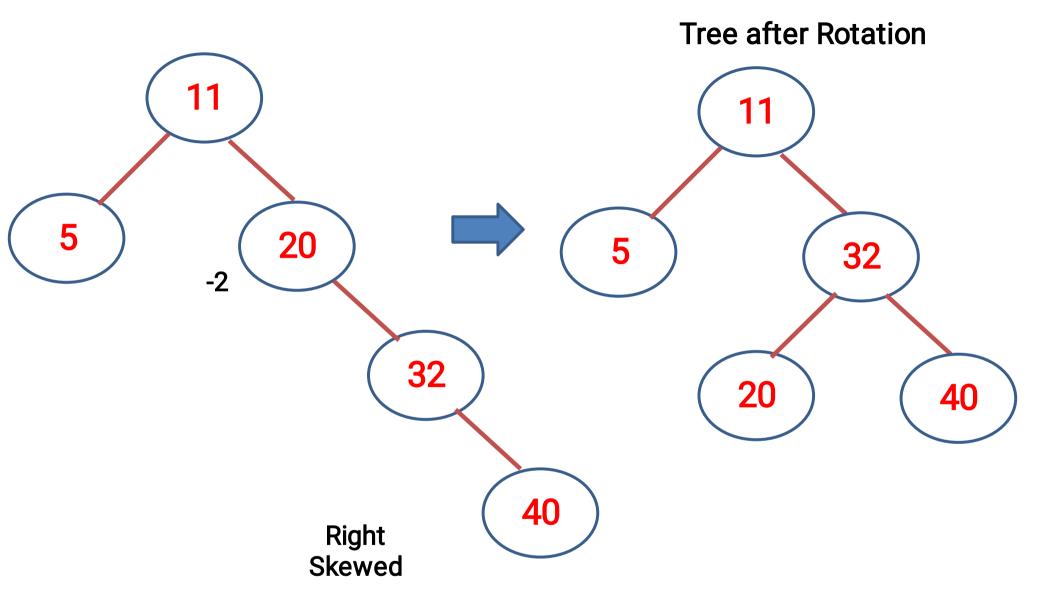
Skewed



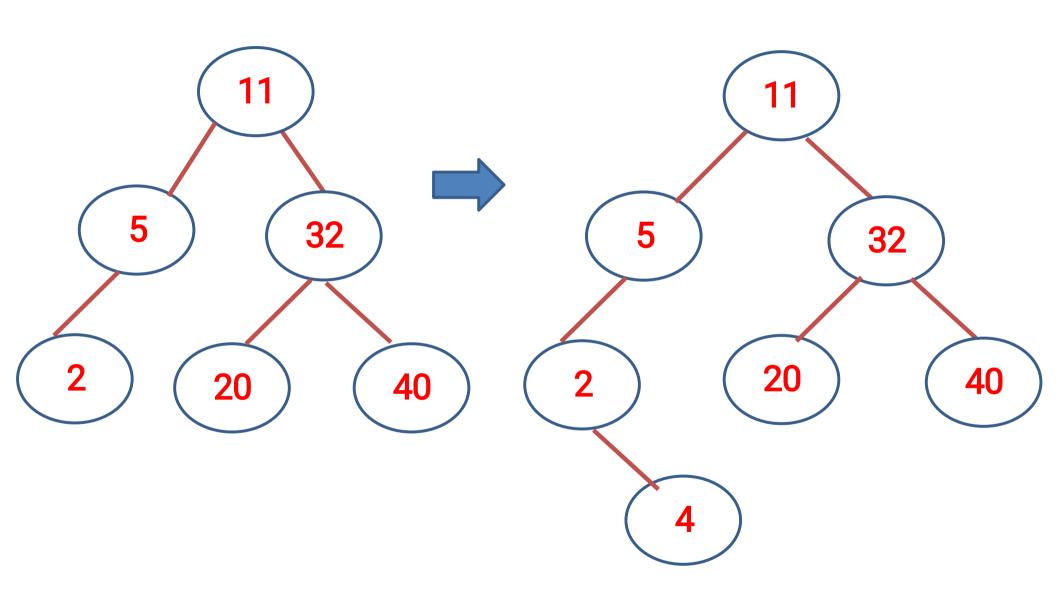
Balance Factor=height of left sub tree-height of right sub tree

If Balance Factor is -1,0,1 BALANCED otherwise UNBALANCED

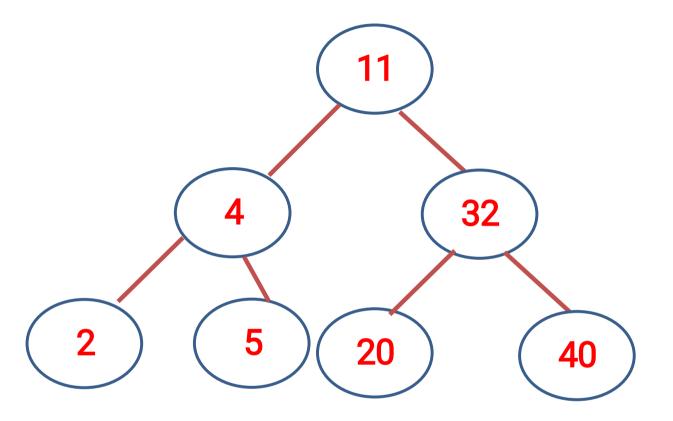


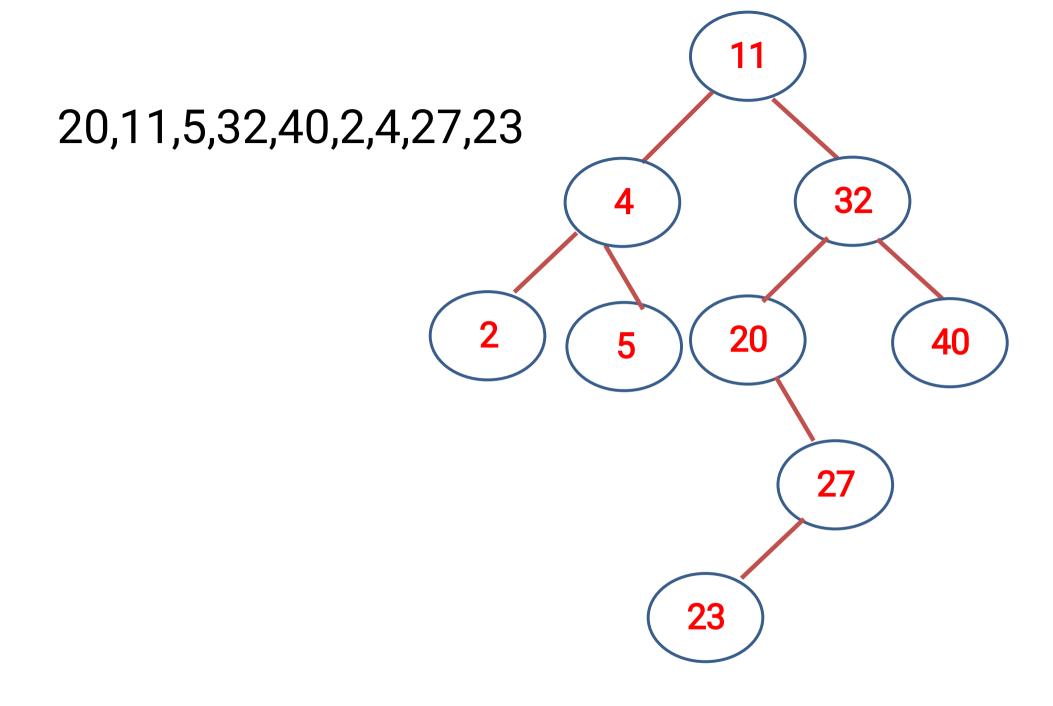


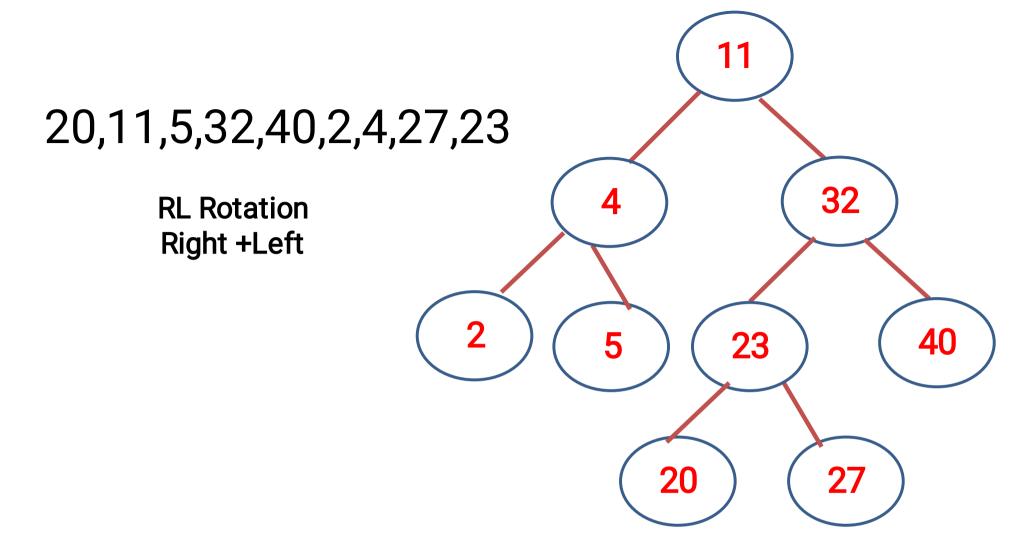
Now tree became Un balanced So Need to Perform Rotation RR Rotation means (Left Rotation)



LR Rotation Left + Right







- AVL=Balanced BST
- Every sub tree of AVL Tree is also AVL