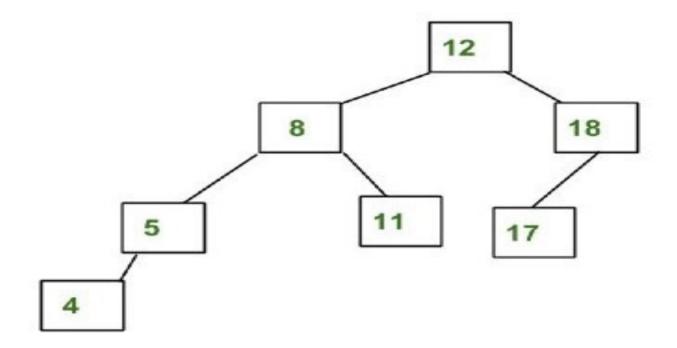
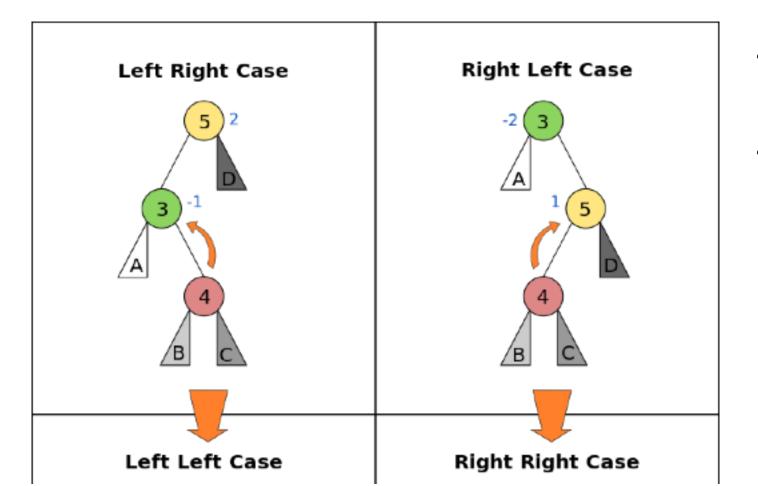
AVL tree

 AVL tree is a self-balancing Binary Search Tree (BST) where the difference between heights of left and right subtrees cannot be more than one for all nodes.



AVL tree balancing

balanceFactor = height(left subtree) - height(right subtree)



- if at any time they differ by more than one, rebalancing is done to restore this property
- To balance itself, an AVL tree may perform the following four kinds of rotations –
 - Left rotation
 - Right rotation
 - Left-Right rotation
 - Right-Left rotation