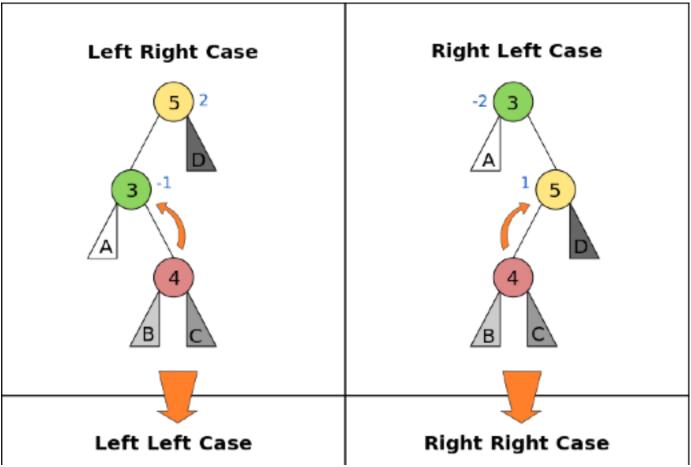
AVL tree balancing

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



 if at any time they differ by more than one, rebalancing is done to restore this property

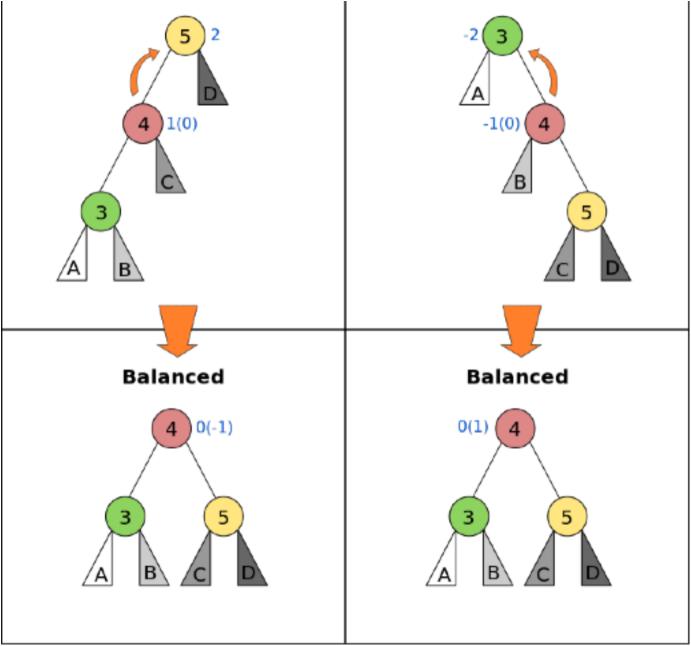
 To balance itself, an AVL tree may perform the following four kinds of rotations –

Left rotation

Right rotation

Left-Right rotation

Right-Left rotation



https://www.hackerrank.com/challenges/selfbalancing-tree/problem https://www.tutorialspoint.com/ data structures algorithms/ avl tree algorithm.htm

 if a tree becomes unbalanced, when a node is inserted into the right subtree of the right subtree, then we perform a single left rotation

• if a node is inserted in the left subtree of the left subtree. The tree then needs a right rotation double rotations are also performed