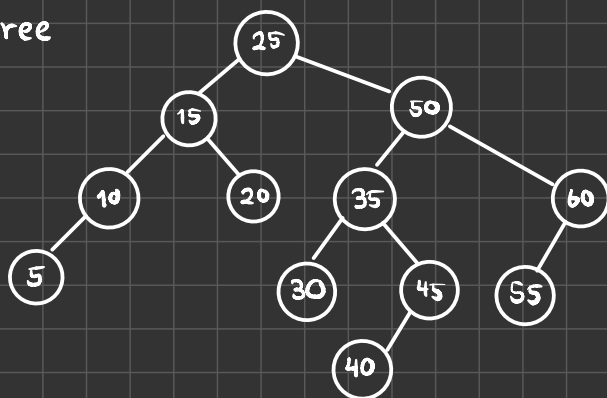


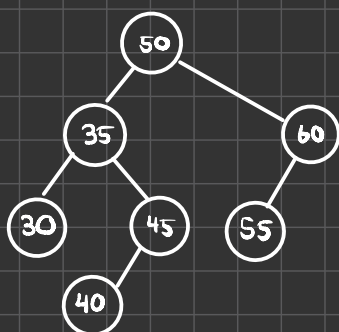
3. (2019)

Initial AVL tree

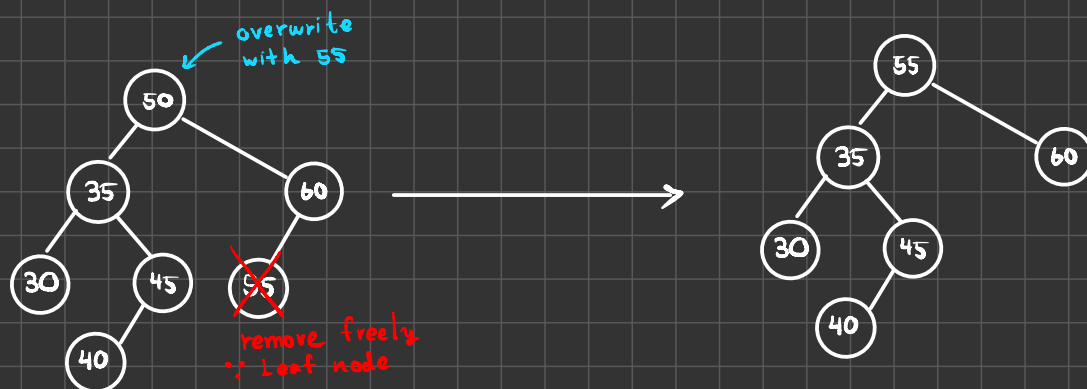


Delete 50

Consider the subtree with 50 as the root

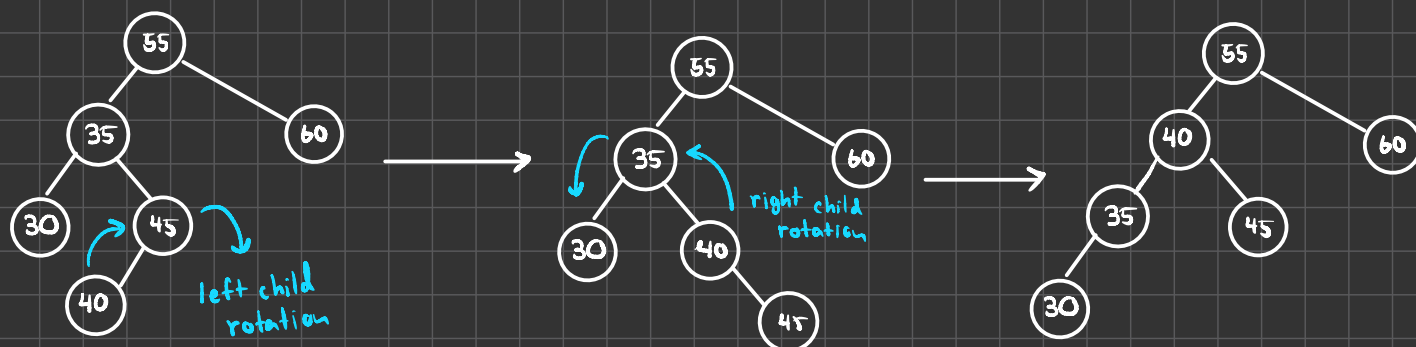


Find the minimum data in the right subtree \rightarrow 55
then overwrite the root & remove the original node containing 55

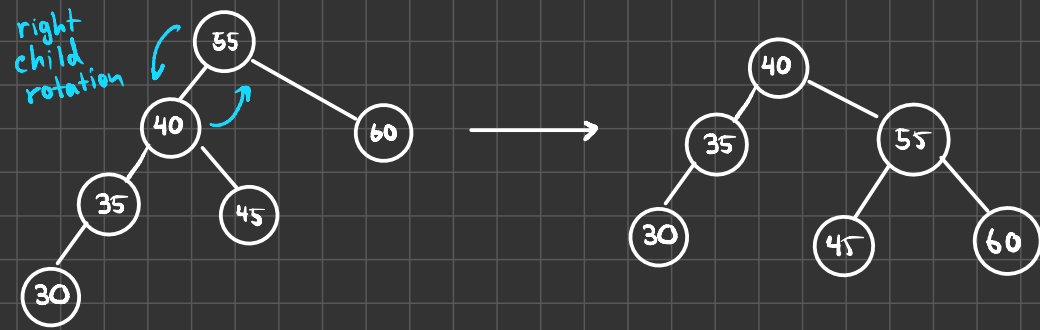


But now the root of this subtree (55) has a balance factor of 2
which violate the AVL property.

To restore AVL property a left-right rotation is done at node 35



Then a right child rotation on the root



And thus the subtree is balance
Adding back to the whole tree

