

CLASSMATE
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AVL TREES → Balance after every insertion
↳ Height balanced BST's

Balance Factor of a Node = height(left subtree) - height(right subtree)

B.F. calculated at every node

- heights of left & right subtree can differ by no more than 1.
- store current heights in each node

Insert & Rotation in AVL Trees

- Only nodes on the path from insertion pt. to root node have possibly changed in height.
- After insert, go back up to root node by node, updating heights.
- If a new B.F. is 2 or -2, adjust tree by rotation around the node.

Deletion in AVL Trees

- Perform standard BST delete
- Rebalance the tree by performing appropriate rotations.

eg Delete 8



