

AVL Trees

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AVL Trees

- AVL Trees are balanced binary search trees. They maintain the property that for each node the height of the node's children differ by at most one.
- This is achieved by checking that the tree remains balanced after insertion. And if the tree becomes unbalanced then nodes are "rotated" to both maintain the binary search tree properties and restore the tree to a balanced state.
- This helps maintain good performance for searching the tree (even in the worst case), without degrading the performance of insertion or deletion operations.