

* AVL TREE

AVL TREE can be defined as height balanced binary search tree in which each node is associated with a balance factor which is calculating by subtracting the height of its right sub-tree from that of its left sub-tree.

Formula:

$$\text{Balance factor (k)} = \text{height}(\text{left}(k)) - \text{height}(\text{right}(k))$$

Example:

