

Maxm Path Sum Inco ways Brute Force TC: n/xn = 0(n|) Exponential

time

complenity

of to get fath sum, we will get a lea (11) 2 3 (116) (-11) -11 -12 (-12)

moni<sup>m</sup> lath Sum in athee of best path to attach. class Paris } int maxilatusum;

```
Pair helper(Node root) {
    if (root == null) {
        return new Pair(Integer.MIN_VALUE, 0);
    }

    Pair left = helper(root.left);
    Pair right = helper(root.right);

    int maxPathSumFromRoot = root.data;
    if (left.bestPath > 0) {
        maxPathSumFromRoot += left.bestPath;
    }

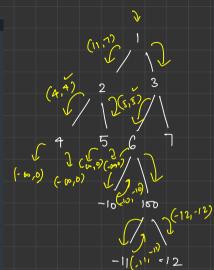
    if (right.bestPath > 0) {
        maxPathSumFromRoot += right.bestPath;
    }

    int maxPathSumFromRoot += right.bestPath;
}

int maxPathSumOfTree = Math.max(maxPathSumFromRoot, Math.max(left.maxPathSum, right.maxPathSum));

int bestPathOfTree = Math.max(root.data, Math.max(root.data + left.bestPath, root.data + right.bestPath));

return new Pair(maxPathSumOfTree, bestPathOfTree);
}
```



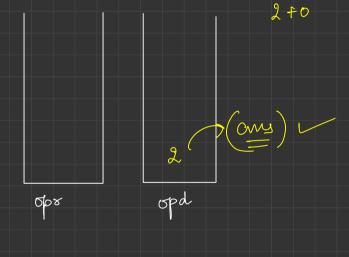
Infin Evaluation and Connection O prefor Expression (2) Infix Expression 3 Postfix Expression E human readable of formate befored by Machine

infix: afb I human

prefix: tab of machine

postfin: ab t

Evaluation	0		
Enf: (8	2 + ((6 + 4) /8) -3)		
fri grixy	Bracket 0		
2	Bracket  division, multiplicatus  Add, Sub.	> (2+)	o) > (2) any!
	Add, Sub. When two sar		solve right one first.



(5 \* 3) / 5 NX XXXXX 7 ord/ 508

5 x 3 = 15 15/5 = 3 ((2+((6 × 4)/8))-3) Prefix (ov1 v2) VIO V2 (In) Preorder: -+2/x6183 Jostin (VIV20)