





```
private int maxPathDown(TreeNode node, int maxValue[]){
          if(node == null) return 0;
           //if there is -ve then sum will be 0
          int leftSum = Math.max(0, maxPathDown(node.left, maxValue));
int rightSum = Math.max(0, maxPathDown(node.right, maxValue));
          maxValue[0] = Math.max(maxValue[0], leftSum + rightSum + node.val);
return Math.max(leftSum, rightSum) + node.val;
    }
}
```