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package binarytree;
// Java program to find maximum path sum in Binary Tree
// An object of Res is passed around so that the
// same value can be used by multiple recursive calls.
class Res {
   public int val;
class BinaryTree69 {
    // Root of the Binary Tree
   Node root;
   // This function returns overall maximum path sum in 'res'
   // And returns max path sum going through root.
   int findMaxUtil(Node node, Res res)
        // Base Case
        if (node == null)
            return 0;
        // l and r store maximum path sum going through left and
        // right child of root respectively
        int l = findMaxUtil(node.left, res);
        int r = findMaxUtil(node.right, res);
        // Max path for parent call of root. This path must
        // include at-most one child of root
        int max single = Math.max(Math.max(1, r) + node.data,
                node.data);
        // Max Top represents the sum when the Node under
        // consideration is the root of the maxsum path and no
        // ancestors of root are there in max sum path
        int max top = Math.max(max single, l + r + node.data);
        // Store the Maximum Result.
        res.val = Math.max(res.val, max top);
        return max single;
    }
    int findMaxSum() {
        return findMaxSum(root);
    // Returns maximum path sum in tree with given root
   int findMaxSum(Node node) {
        // Initialize result
        // int res2 = Integer.MIN VALUE;
        Res res = new Res();
        res.val = Integer.MIN VALUE;
        // Compute and return result
        findMaxUtil(node, res);
        return res.val;
    /* Driver program to test above functions */
   public static void main(String args[]) {
```