Solution 1

Solution 1 Solution 2 Solution 3

Our Solution(s) Run

```
Run Code
```

Your Solutions

```
Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   class Program {
     // O(n) time | O(log(n)) space
     public static int maxPathSum(BinaryTree tree) {
        List<Integer> maxSumArray = findMaxSum(tree);
9
        return maxSumArray.get(1);
10
11
12
     public static List<Integer> findMaxSum(BinaryTree tree) {
        if (tree == null) {
14
         return new ArrayList<Integer>(Arrays.asList(0, 0));
15
       List<Integer> leftMaxSumArray = findMaxSum(tree.left);
16
17
        Integer leftMaxSumAsBranch = leftMaxSumArray.get(0);
        Integer leftMaxPathSum = leftMaxSumArray.get(1);
18
19
20
        List<Integer> rightMaxSumArray = findMaxSum(tree.right);
21
        Integer rightMaxSumAsBranch = rightMaxSumArray.get(0);
        Integer rightMaxPathSum = rightMaxSumArray.get(1);
24
        Integer maxChildSumAsBranch = Math.max(leftMaxSumAsBranch, rightMa
        Integer maxSumAsBranch = Math.max(maxChildSumAsBranch + tree.value
26
        Integer maxSumAsRootNode =
27
           Math.max(leftMaxSumAsBranch + tree.value + rightMaxSumAsBranch
28
        int maxPathSum = Math.max(leftMaxPathSum, Math.max(rightMaxPathSum
29
30
        return new ArrayList<Integer>(Arrays.asList(maxSumAsBranch, maxPat
31
33
     static class BinaryTree {
```

```
1 class Program {
     public static int maxPathSum(BinaryTree tree) {
       // Write your code here.
       return -1;
     static class BinaryTree {
       public int value;
       public BinaryTree left;
10
       public BinaryTree right;
11
       public BinaryTree(int value) {
12
13
         this.value = value;
14
15
16 }
17
```

Run or submit code when you're ready.

technological test is the feetback fraction of the feetback fraction and the feetback fraction of the feetback fraction o