

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <vector>
4 using namespace std;
5
6 class BinaryTree {
7 public:
8     int value;
9     BinaryTree *left;
10    BinaryTree *right;
11
12    BinaryTree(int value);
13    void insert(vector<int> values, int i = 0);
14 };
15
16 vector<int> findMaxSum(BinaryTree *tree);
17
18 // O(n) time | O(log(n)) space
19 int maxPathSum(BinaryTree tree) {
20     vector<int> maxSumArray = findMaxSum(&tree);
21     return maxSumArray[1];
22 }
23
24 vector<int> findMaxSum(BinaryTree *tree) {
25     if (tree == NULL) {
26         return vector<int>{0, 0};
27     }
28
29     vector<int> leftMaxSumArray = findMaxSum(tree->left);
30     int leftMaxSumAsBranch = leftMaxSumArray[0];
31     int leftMaxPathSum = leftMaxSumArray[1];
32
33     vector<int> rightMaxSumArray = findMaxSum(tree->right);
```

Our Tests

Solution 1 Solution 2 Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 class BinaryTree {
5 public:
6     int value;
7     BinaryTree *left;
8     BinaryTree *right;
9
10    BinaryTree(int value);
11    void insert(vector<int> values, int i = 0);
12 };
13
14 int maxPathSum(BinaryTree tree) {
15     // Write your code here.
16     return -1;
17 }
18
```

Custom Output

Submit Code

Run or submit code when you're ready.