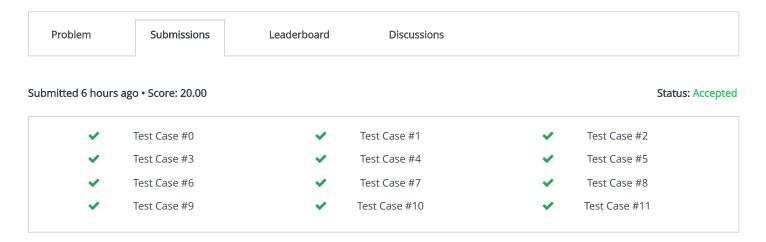
All Contests > Assignment 04 | Basic Data Structures | Batch 03 > Sum of Tree

## Sum of Tree



## **Submitted Code**

```
Language: C++20
                                                                                                 P Open in editor
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 class Node
5 {
6 public:
       int val;
       Node *left;
8
9
       Node *right;
       Node(int val)
10
11
12
           this->val = val;
           this->left = NULL;
13
           this->right = NULL;
14
15
       }
16 };
17
18 Node *inputTree()
19 {
20
       int val;
21
       cin >> val;
22
       Node *root;
23
       if (val == -1)
24
           root = NULL;
25
       else
26
           root = new Node(val);
27
28
       queue<Node *> q;
       if (root)
29
30
           q.push(root);
31
       while (!q.empty())
```

```
33
34
           Node *f = q.front();
35
           q.pop();
36
           int l, r;
37
38
           cin >> l >> r;
39
           Node *myLeft, *myRight;
40
           if (l == -1)
41
                myLeft = NULL;
42
43
           else
44
                myLeft = new Node(l);
45
           if (r == -1)
46
47
                myRight = NULL;
           else
48
                myRight = new Node(r);
49
50
51
           f->left = myLeft;
52
           f->right = myRight;
53
54
           if (f->left)
55
                q.push(f->left);
56
           if (f->right)
57
                q.push(f->right);
58
59
       return root;
60 }
61
62 long long int levelOrderSum(Node *root)
63 {
64
       if(root == NULL)
65
       {
66
           return 0;
67
68
       queue<Node *> q;
69
       q.push(root);
70
71
72
       long long int sum =0;
73
       while(!q.empty())
74
75
           Node *f = q.front();
76
           q.pop();
77
78
           // cout<<f->val<<" ";
79
           sum+= f->val;
80
81
           if(f->left) q.push(f->left);
82
           if(f->right) q.push(f->right);
83
       return sum;
84
85 }
86
87 int main()
88 {
89
       Node *root = inputTree();
90
       long long int s = levelOrderSum(root);
91
       cout<<s<<endl;</pre>
92
93
       return 0;
94 }
```

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