 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 4	Name : VEDANT BHARAD	
Day : 128	Date : 22/2/2023	Enrollment No: 92100133023


CP Club 365 Days Challenge

Programming language – C++

Problem Statement

<https://practice.geeksforgeeks.org/problems/95423710beef46bd66f8dbb48c510b2c320dab05/1>

Git :- https://github.com/Vedantbharad2603/CP_club_365_Days

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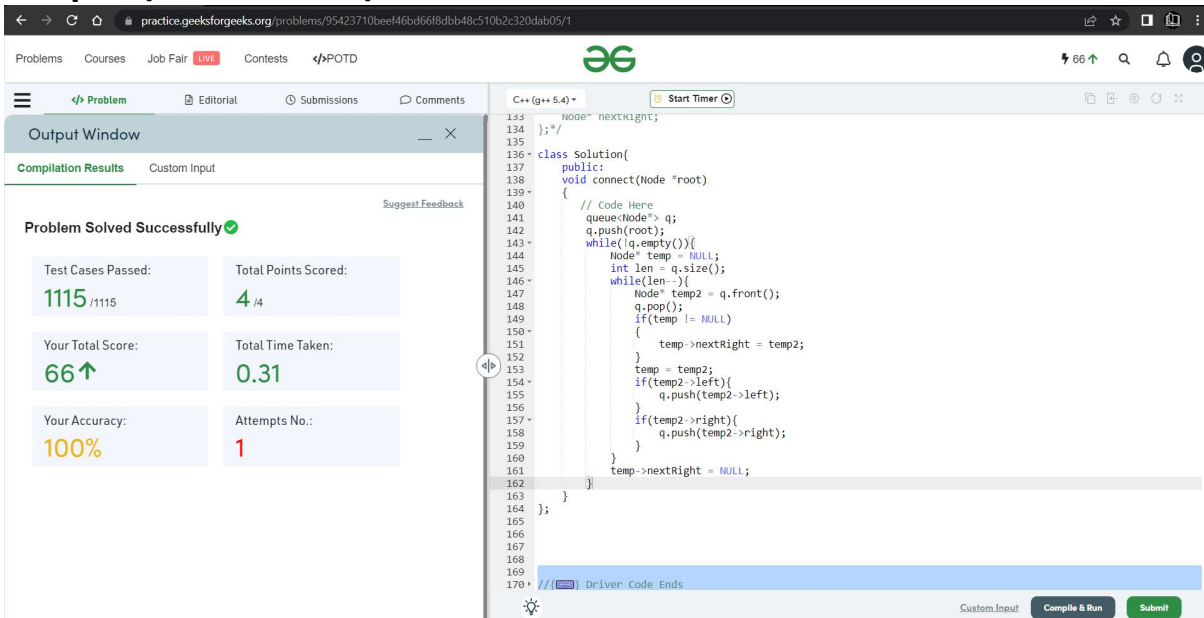
Your Code:

```

class Solution{
public:
void connect(Node *root)
{
    // Code Here
    queue<Node*> q;
    q.push(root);
    while(!q.empty()){
        Node* temp = NULL;
        int len = q.size();
        while(len--){
            Node* temp2 = q.front();
            q.pop();
            if(temp != NULL)
            {
                temp->nextRight = temp2;
            }
            temp = temp2;
            if(temp2->left){
                q.push(temp2->left);
            }
            if(temp2->right){
                q.push(temp2->right);
            }
        }
        temp->nextRight = NULL;
    }
}
};

```

Output (Screen Shot):



The screenshot shows a web-based C++ editor interface. On the left, the 'Output Window' displays the following results:

- Problem Solved Successfully** (with a green checkmark)
- Test Cases Passed:** 1115 / 1115
- Total Points Scored:** 4 / 4
- Your Total Score:** 66 ↑
- Total Time Taken:** 0.31
- Your Accuracy:** 100%
- Attempts No.:** 1


The main editor area shows the C++ code for the 'Solution' class, which implements the 'connect' function. The code uses a queue to traverse the tree level by level, linking each node to its next-right neighbor. The code is as follows:

```

133 node* nextRight;
134 };
135
136 class Solution{
137 public:
138 void connect(Node *root)
139 {
140     // Code Here
141     queue<Node*> q;
142     q.push(root);
143     while(!q.empty()){
144         Node* temp = NULL;
145         int len = q.size();
146         while(len--){
147             Node* temp2 = q.front();
148             q.pop();
149             if(temp != NULL)
150             {
151                 temp->nextRight = temp2;
152             }
153             temp = temp2;
154             if(temp2->left){
155                 q.push(temp2->left);
156             }
157             if(temp2->right){
158                 q.push(temp2->right);
159             }
160         }
161         temp->nextRight = NULL;
162     }
163 }
164 };
165
166
167
168
169
170 // Driver Code Ends

```

At the bottom of the editor, there are buttons for 'Custom Input', 'Compile & Run', and 'Submit'.

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Understanding about problem:

- In this task there is a binary tree and I need to connect the nodes that are at the same level. With one pointer named “nextRight”.
- The pointer “nextRight” is already given but with garbage values I need to set right side of node with current node.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club