 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 4</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 132</b>	<b>Date : 27/2/2023</b>	<b>Enrollment No: 92100133023</b>


## CP Club 365 Days Challenge

Programming language – C++

### Problem Statement

[https://practice.geeksforgeeks.org/problems/bfs-traversal-of-graph/1?page=1&difficulty\[\]=0&status\[\]=unsolved&curated\[\]=1&sortBy=submissions](https://practice.geeksforgeeks.org/problems/bfs-traversal-of-graph/1?page=1&difficulty[]=0&status[]=unsolved&curated[]=1&sortBy=submissions)

Git :- [https://github.com/Vedantbharad2603/CP\\_club\\_365\\_Days](https://github.com/Vedantbharad2603/CP_club_365_Days)

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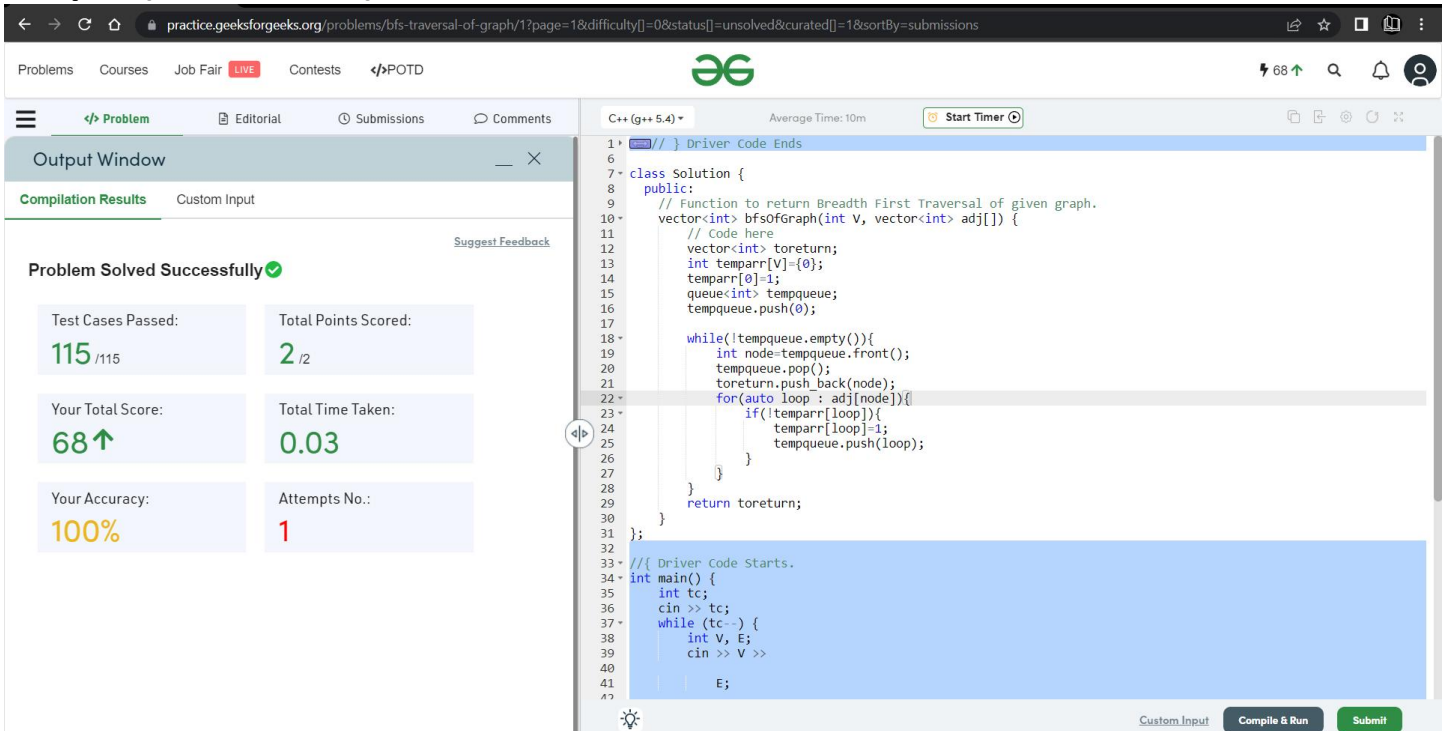
## Your Code:

```
vector<int> bfsOfGraph(int V, vector<int> adj[]) {
    // Code here
    vector<int> toreturn;
    int temparr[V]={0};
    temparr[0]=1;
    queue<int> tempqueue;
    tempqueue.push(0);

    while(!tempqueue.empty()){
        int node=tempqueue.front();
        tempqueue.pop();
        toreturn.push_back(node);
        for(auto loop : adj[node]){

            if(!temparr[loop]){
                temparr[loop]=1;
                tempqueue.push(loop);
            }
        }
    }
    return toreturn;
}
```

## Output (Screen Shot):




The screenshot shows a web browser displaying a C++ solution for the "BFS Traversal of Graph" problem on the GeeksforGeeks practice platform. The browser address bar shows the URL: `practice.geeksforgeeks.org/problems/bfs-traversal-of-graph/1?page=1&difficulty[]=0&status[]=unsolved&curated[]=1&sortBy=submissions`.

The page header includes navigation links: Problems, Courses, Job Fair, LIVE, Contests, and </>POTD. The user's profile icon is visible in the top right corner.

The main content area is divided into two sections:

- Output Window:**
  - Compilation Results:** Shows "Problem Solved Successfully" with a green checkmark.
  - Test Cases Passed:** 115 / 115.
  - Total Points Scored:** 2 / 2.
  - Your Total Score:** 68 ↑.
  - Total Time Taken:** 0.03.
  - Your Accuracy:** 100%.
  - Attempts No.:** 1.
- Code Editor:**
  - Language: C++ (g++ 5.4).
  - Average Time: 10m.
  - Start Timer button.
  - The code is a C++ implementation of BFS traversal, matching the code provided in the "Your Code" section.
  - The code is enclosed in a class named `Solution` with a public method `bfsOfGraph`.
  - The driver code starts with `int main() { int tc; cin >> tc; while (tc--) { int V, E; cin >> V >> E;`.

At the bottom right, there are buttons for "Custom Input", "Compile & Run", and "Submit".

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### Understanding about problem:

- In this task I need to return vector in which there is Breadth First Traversal of given graph.

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