
 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 3	Name : VEDANT BHARAD	
Day : 62	Date : 18/12/2022	Enrollment No: 92100133023

CP Club 365Days Challenge

Programming language – C++

Problem Statement

[https://practice.geeksforgeeks.org/problems/run-length-encoding/1?page=1&difficulty\[\]=0&category\[\]=Strings&sortBy=submissions](https://practice.geeksforgeeks.org/problems/run-length-encoding/1?page=1&difficulty[]=0&category[]=Strings&sortBy=submissions)

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Your Code:

```
// 0x62Day of 0x365Days challenge
// VEDANT BHARAD
// 18-12-2022
//{ Driver Code Starts
#include <bits/stdc++.h>
using namespace std;

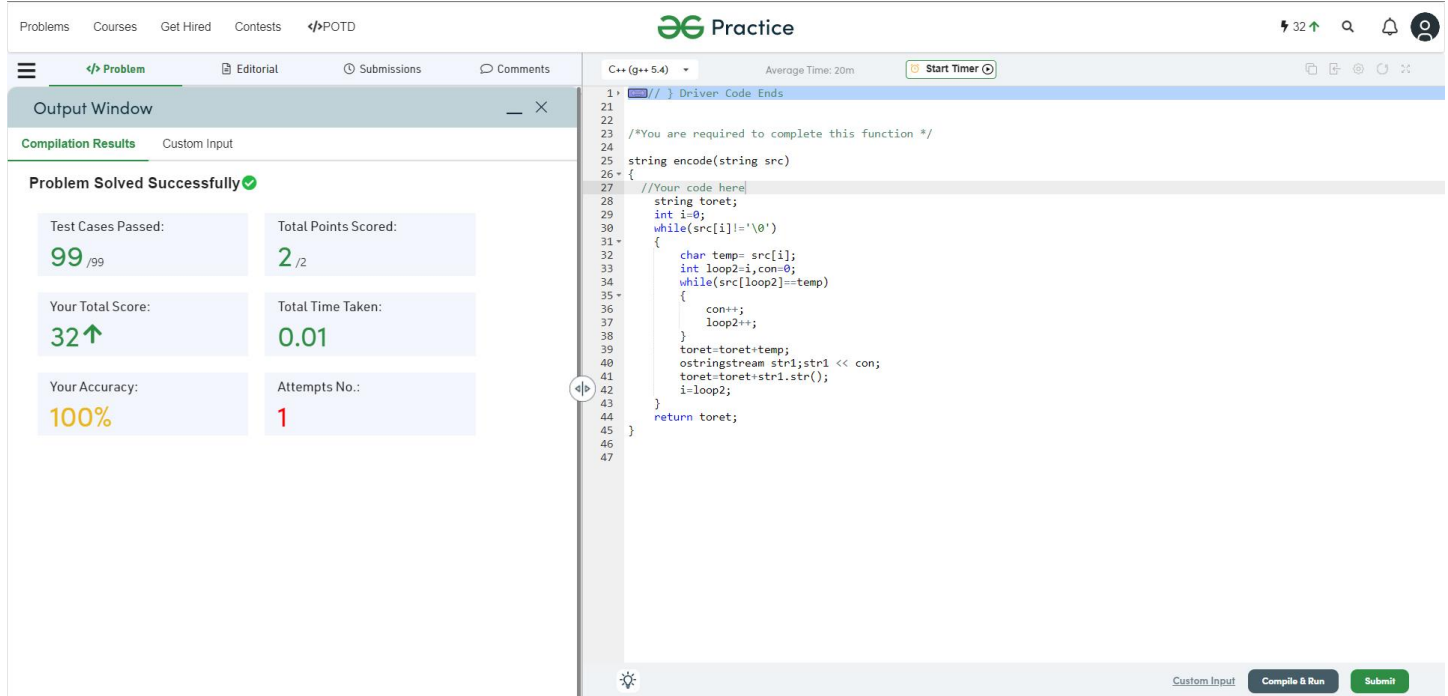
string encode(string src);
int main() {

    int T;
    cin>>T;
    while(T--)
    {
        string str;
        cin>>str;

        cout<<encode(str)<<endl;
    }
    return 0;
}
// } Driver Code Ends
/*You are required to complete this function */
string encode(string src)
{
    // Your code here
    string toret;
    int i=0;
    while(src[i]!='\0')
    {
        char temp= src[i];
        int loop2=i,con=0;
        while(src[loop2]==temp)
        {
            con++;
            loop2++;
        }
        toret=toret+temp;
        ostringstream str1;str1 << con;
        toret=toret+str1.str();
        i=loop2;
    }
    return toret;
}
```

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Output (Screen Shot):



The screenshot shows a C++ practice interface. On the left, the 'Output Window' displays 'Problem Solved Successfully' with a green checkmark. Below this, statistics are shown: Test Cases Passed: 99/99, Total Points Scored: 2/2, Your Total Score: 32 (up arrow), Total Time Taken: 0.01, Your Accuracy: 100%, and Attempts No.: 1. The main editor shows C++ code for a function `string encode(string src)` that counts the frequency of each character in the input string and returns a string where each character is followed by its count. The code is as follows:

```

1 // } Driver Code Ends
21
22
23 /*You are required to complete this function */
24
25 string encode(string src)
26 {
27     //Your code here
28     string toret;
29     int i=0;
30     while(src[i]!='\0')
31     {
32         char temp= src[i];
33         int loop2=i,con=0;
34         while(src[loop2]==temp)
35         {
36             con++;
37             loop2++;
38         }
39         toret=toret+temp;
40         ostringstream str1;str1 << con;
41         toret=toret+str1.str();
42         i=loop2;
43     }
44     return toret;
45 }
46
47

```

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

Understanding about problem:

- In this task I need to return a string in that there will be each char and count of that char's frequency.

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