

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Experiment-1.6

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Branch: BE-CSE
Semester: 6th
Subject Code: 20CSP-351

UID: 20BCS9398
Section/Group: 20BCS_DM-708B
Subject Name: Competitive Coding-II

AIM: To demonstrate the concept of Graph.

Problem1: Gray Code

<https://leetcode.com/problems/gray-code/>

Program Code:

```
class Solution {  
public:  
    vector<int> grayCode(int n) {  
        vector<int> v;  
        int p=(1<<n);  
        for(int i=0; i<p; i++){  
            v.push_back(i^(i/2));  
        }  
        return v;  
    }  
};
```

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Output:

The screenshot shows a LeetCode interface for the problem 'Find the Difference'. On the left sidebar, it indicates the solution is 'Accepted' and shows a list of challenges including '90. Subsets II' and '717. 1-bit and 2-bit Characters'. The main area displays the user's profile 'Kanishk' with a timestamp 'Apr 27, 2023 08:48'. Below the profile, there are performance metrics: Runtime '6 ms', Beats '88.16%', Memory '11.8 MB', and Beats '75.68%'. A 'Notes' section is present with a text input field. Below that, the 'Related Tags' section shows 'Select tags' with a count of '0/5'. The code editor displays the following C++ code:

```
class Solution {
public:
    vector<int> grayCode(int n) {
        vector<int> v;
        int p=(1<n);
        for(int i=0; i<p; i++){
            v.push_back(1^(1/2));
        }
        return v;
    }
};
```

At the bottom right, there are buttons for 'Run' and 'Submit', and a 'Console' button on the bottom left.

Problem2: Find the Difference

<https://leetcode.com/problems/find-the-difference/>

Program Code:

```
class Solution {
public:
    char findTheDifference(string s, string t) {
        for(int i=0;i<s.size();i++)
            t[i+1]+=t[i]-s[i];
        return t[t.size()-1];
    }
};
```

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Output:

Accepted

Next question

390. Elimination Game

More challenges

136. Single Number

All statuses

All languages

Accepted

a few seconds ago

C++

Kanishk

Apr 27, 2023 08:50

Details

+ Solution

C++

Runtime 5 ms

Beats 37.23%

Memory 6.6 MB

Beats 75.6%

Click the distribution chart to view more details

Notes

Write your notes here

Related Tags

Select tags

0/5

```
class Solution {
public:
    char findTheDifference(string s, string t) {
        for(int i=0;i<s.size();i++)
            t[i+1]+=t[i]-s[i];
        return t[t.size()-1];
    }
};
```

Console

Run

Submit