



DEPARTMENT OF ACADEMIC AFFAIRS

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Experiment No. - 2

Student Name: Vivek Kumar
Branch: BE-CSE(LEET)
Semester: 6th
Subject Name: Competitive coding - II

UID: 21BCS8129
Section/Group: 20BCS-ST-801/B
Date of Performance: 21/02/2023
Subject Code: 20CSP-351

1. Aim/Overview of the practical:

Q.1 Find the Index of the First Occurance in a String.

<https://leetcode.com/problems/find-the-index-of-the-first-occurrence-in-a-string/>

2. Apparatus / Simulator Used:

- Windows 7 or above
- Google Chrome

3. Objective:

- To understand the concept of String
- To implement the concept of Occurance Count.

4. Code:

```
class Solution {  
public:  
    int strStr(string haystack, string needle) {  
        return haystack.find(needle)!=string::npos?haystack.find(needle):-1;  
    }  
};
```

5. Result/Output/Writing Summary:

The screenshot shows a browser window with the LeetCode problem page for "Find the Index of the First Occurrence in a String". The code area contains the C++ solution provided earlier. Below the code, there are two examples: Example 1 and Example 2, both showing the input and output for the provided code. The browser interface includes a header with tabs like "Welcome to Chandigarh Uni", "CHANDIGARH UNIVERSITY", and "Jump Game II - LeetCode". The bottom of the page shows constraints, accepted submissions (1,540,508), and related topics.



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The screenshot shows a LeetCode problem page for "Find the Index of the First Occurrence in a String". The code submitted is:

```
1 v class Solution {
2   public:
3     int strStr(string haystack, string needle) {
4       if(needle == "") return 0;
5       if(haystack == "") return -1;
6     }
}
```

Runtime: 0 ms, faster than 100.00% of C++ online submissions for Find the Index of the First Occurrence in a String.

Memory Usage: 6.2 MB, less than 95.24% of C++ online submissions for Find the Index of the First Occurrence in a String.

Next challenges:

- Shortest Palindrome
- Repeated Substring Pattern

Show off your acceptance: [f](#) [t](#) [in](#)

Time Submitted	Status	Runtime	Memory	Language
02/23/2023 19:41	Accepted	0 ms	6.2 MB	cpp
02/21/2023 10:43	Accepted	0 ms	40.1 MB	java
02/21/2023 10:40	Wrong Answer	N/A	N/A	java

Testcase Run Code Result Debugger

Accepted Runtime: 2 ms

Your input `"sadbutsad"`
`"-sad"`

Output `0` Diff

Expected `0`

Console Use Example Testcases Run Code Submit

1. Aim/Overview of the practical:

Q.2 Rotate String

<https://leetcode.com/problems/rotate-string/>

2. Apparatus / Simulator Used:

- Windows 7 or above
- Google Chrome

3. Objective:

- To understand the concept of Rotation
- To implement the concept of String.

4. Code:

```
class Solution {
public:
    bool rotateString(std::string s, std::string goal) {
        return (s.length() == goal.length() && (s + s).find(goal) != std::string::npos);
    }
};
```



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5. Result/Output/Writing Summary:

The screenshot shows a LeetCode problem page for "796. Rotate String". The code submitted is:

```
1+ class Solution {
2+ public:
3+     bool rotateString(string s, string goal) {
4+         if (s.length() == goal.length() && (s + s).find(goal) != std::string::npos)
5+             return true;
6+     }
}
```

The test results show the code was accepted with a runtime of 0 ms. The input was "abcde" and the output was "true".

The screenshot shows the LeetCode problem page for "796. Rotate String" under the "Submissions" tab. The code submitted is identical to the one above.

Runtime: 0 ms, faster than 100.00% of C++ online submissions for Rotate String.

Memory Usage: 6.2 MB, less than 71.48% of C++ online submissions for Rotate String.

Test results show the code was accepted with a runtime of 0 ms. The input was "abcde" and the output was "true".



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Learning outcomes (What I have learnt):

- Learned the concept of String.
- Learnt about Array in Occurance and Rotation.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	