

Experiment No. - 2

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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

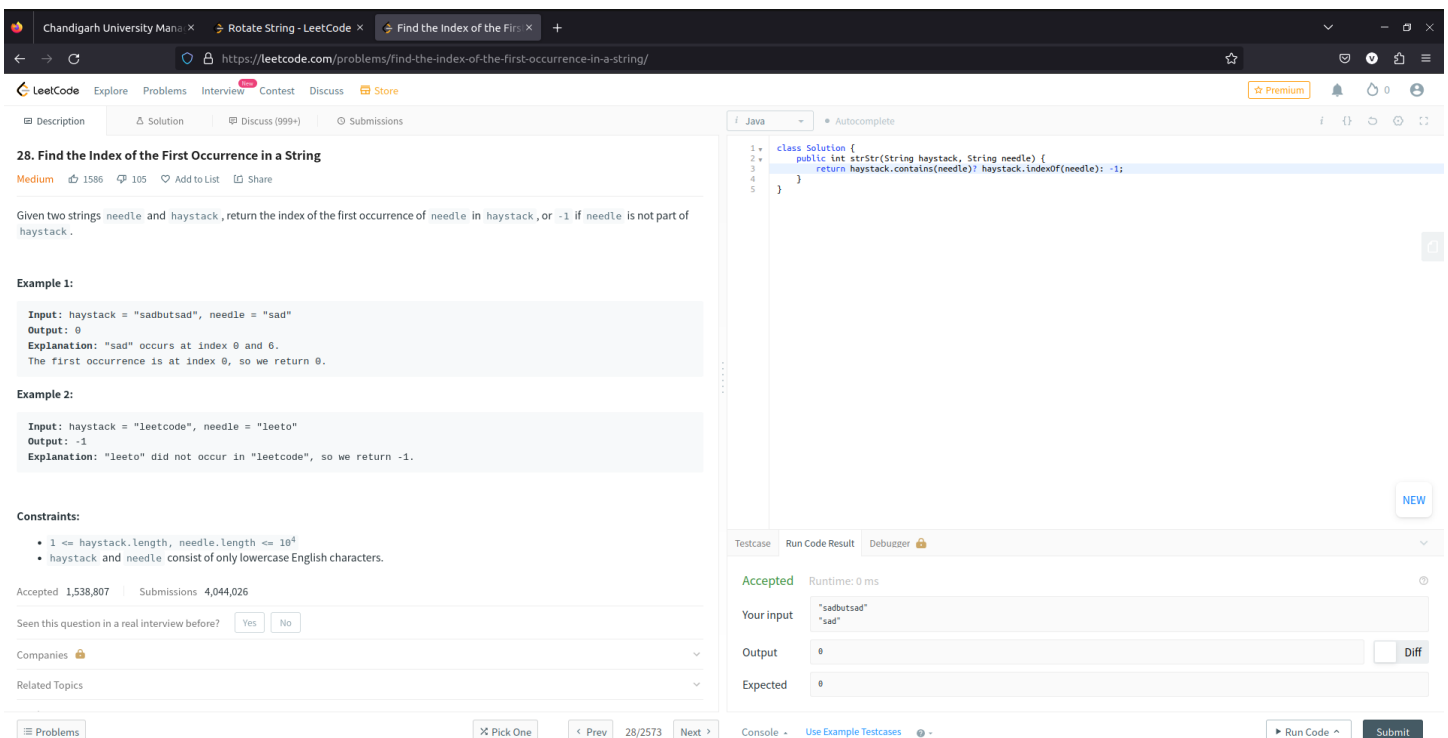
3. Objective:

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

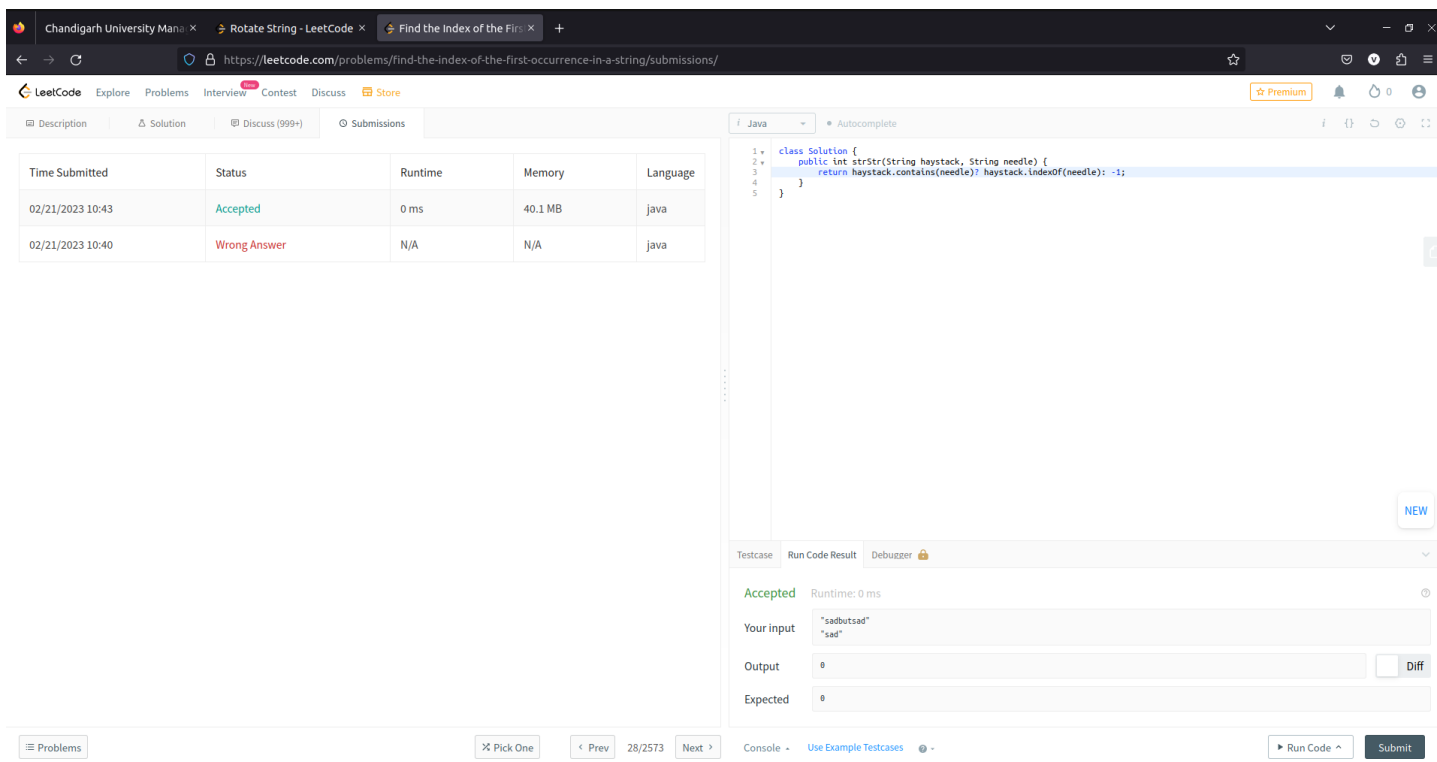
4. Code:

```
class Solution {
    public int strStr(String haystack, String needle) {
        return haystack.contains(needle)? haystack.indexOf(needle): -1;
    }
}
```

5. Result/Output/Writing Summary:



The screenshot displays the LeetCode interface for the problem "Find the Index of the First Occurrence in a String". The problem is categorized as "Medium" with 1586 likes and 105 solves. The description states: "Given two strings needle and haystack, return the index of the first occurrence of needle in haystack, or -1 if needle is not part of haystack." Two examples are provided: Example 1 with haystack="sadbutsad" and needle="sad" returning 0; and Example 2 with haystack="leetcode" and needle="leeto" returning -1. Constraints specify that 1 ≤ haystack.length, needle.length ≤ 10⁴ and both strings consist of only lowercase English characters. The submission section shows 1,538,807 accepted solutions and 4,044,026 submissions. The code editor on the right shows the submitted Java code, which is accepted with a runtime of 0 ms. The test case shows input "sadbutsad" and "sad" resulting in output 0, matching the expected result.



The screenshot shows a web browser with the URL <https://leetcode.com/problems/find-the-index-of-the-first-occurrence-in-a-string/submissions/>. The page displays a table of submissions for the problem "Find the Index of the First Occurrence in a String". The table has columns for Time Submitted, Status, Runtime, Memory, and Language. Two submissions are listed: one accepted at 10:43 and one wrong answer at 10:40. To the right, a code editor shows a Java solution. Below the code editor, the test case results are shown, indicating that the solution is accepted with a runtime of 0 ms. The input is "sadbutsad" and the output is 0.

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

```

1 class Solution {
2     public int strStr(String haystack, String needle) {
3         return haystack.contains(needle)? haystack.indexOf(needle): -1;
4     }
5 }

```

Testcase: Run Code Result: Debugger

Accepted Runtime: 0 ms

Your input: "sadbutsad", "sad"

Output: 0

Expected: 0

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.

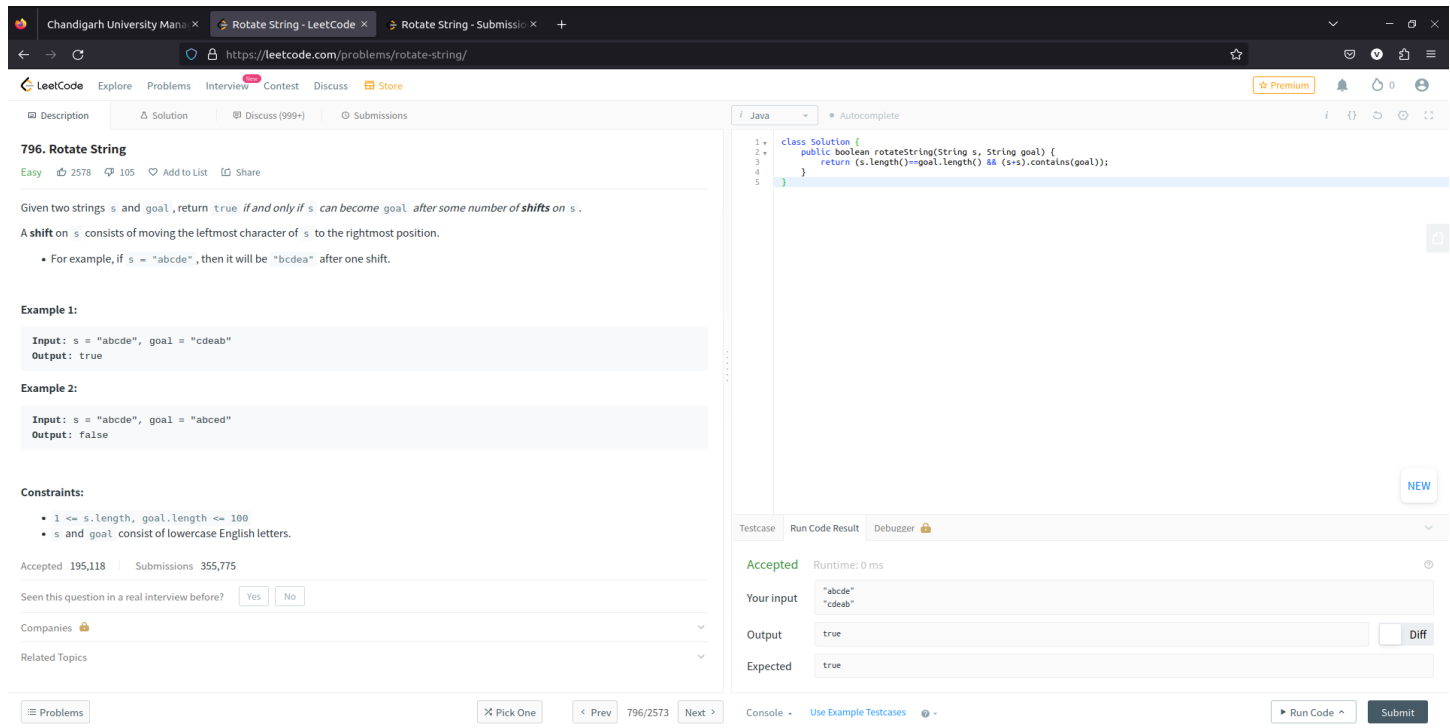
4. Code:

```

class Solution {
    public boolean rotateString(String s, String goal) {
        return (s.length()==goal.length() && (s+s).contains(goal));
    }
}

```

5. Result/Output/Writing Summary:



796. Rotate String

Easy 2578 105 Add to List Share

Given two strings *s* and *goal*, return *true* if and only if *s* can become *goal* after some number of shifts on *s*. A shift on *s* consists of moving the leftmost character of *s* to the rightmost position.

- For example, if *s* = "abcde", then it will be "bcdea" after one shift.

Example 1:

Input: *s* = "abcde", *goal* = "cdeab"

Output: true

Example 2:

Input: *s* = "abcde", *goal* = "abced"

Output: false

Constraints:

- 1 ≤ *s*.length, *goal*.length ≤ 100
- s* and *goal* consist of lowercase English letters.

Accepted 195,118 Submissions 355,775

Seen this question in a real interview before?

Companies

Related Topics

```
1 class Solution {
2     public boolean rotateString(String s, String goal) {
3         return (s.length() == goal.length() && (s+s).contains(goal));
4     }
5 }
```

Testcase Run Code Result Debuzzer

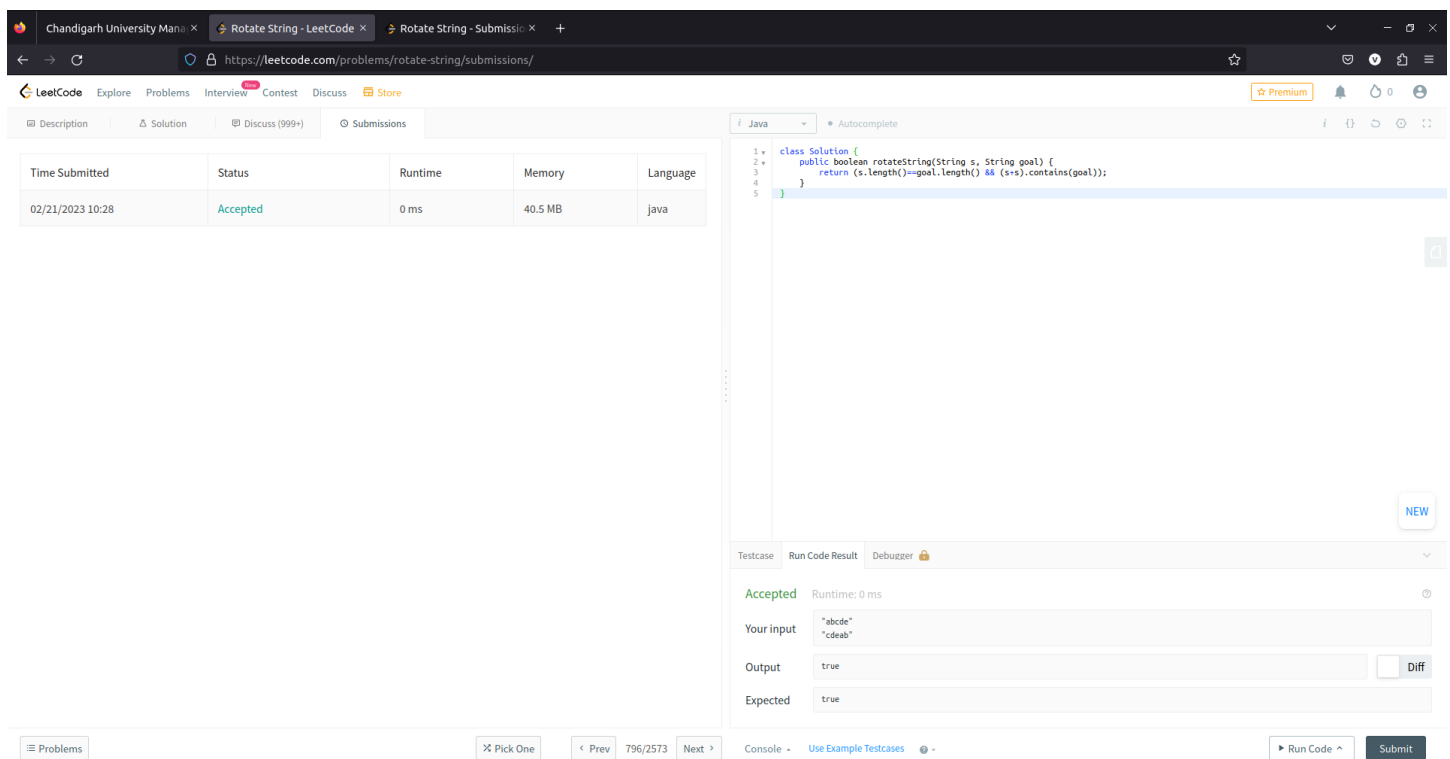
Accepted Runtime: 0 ms

Your input "abcde" "cdeab"

Output true

Expected true

Console Use Example Testcases



Time Submitted	Status	Runtime	Memory	Language
02/21/2023 10:28	Accepted	0 ms	40.5 MB	java

```
1 class Solution {
2     public boolean rotateString(String s, String goal) {
3         return (s.length() == goal.length() && (s+s).contains(goal));
4     }
5 }
```

Testcase Run Code Result Debuzzer

Accepted Runtime: 0 ms

Your input "abcde" "cdeab"

Output true

Expected true

Console Use Example Testcases

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:	