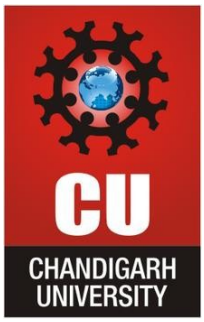
CHANDIGARH UNIVERSITY

UNIVERSITY INSTITUTE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Vivek Kumar(21BCS8129)	**Submitted To:** Jayesh Surana(E13219)
Subject Name	Competitive Coding - II
Subject Code	20CSP-351
Branch	Computer Science and Engineering
Semester	6th

Experiment No. - 1

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:**

Find the Index of the First Occurance in a String.

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`.

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

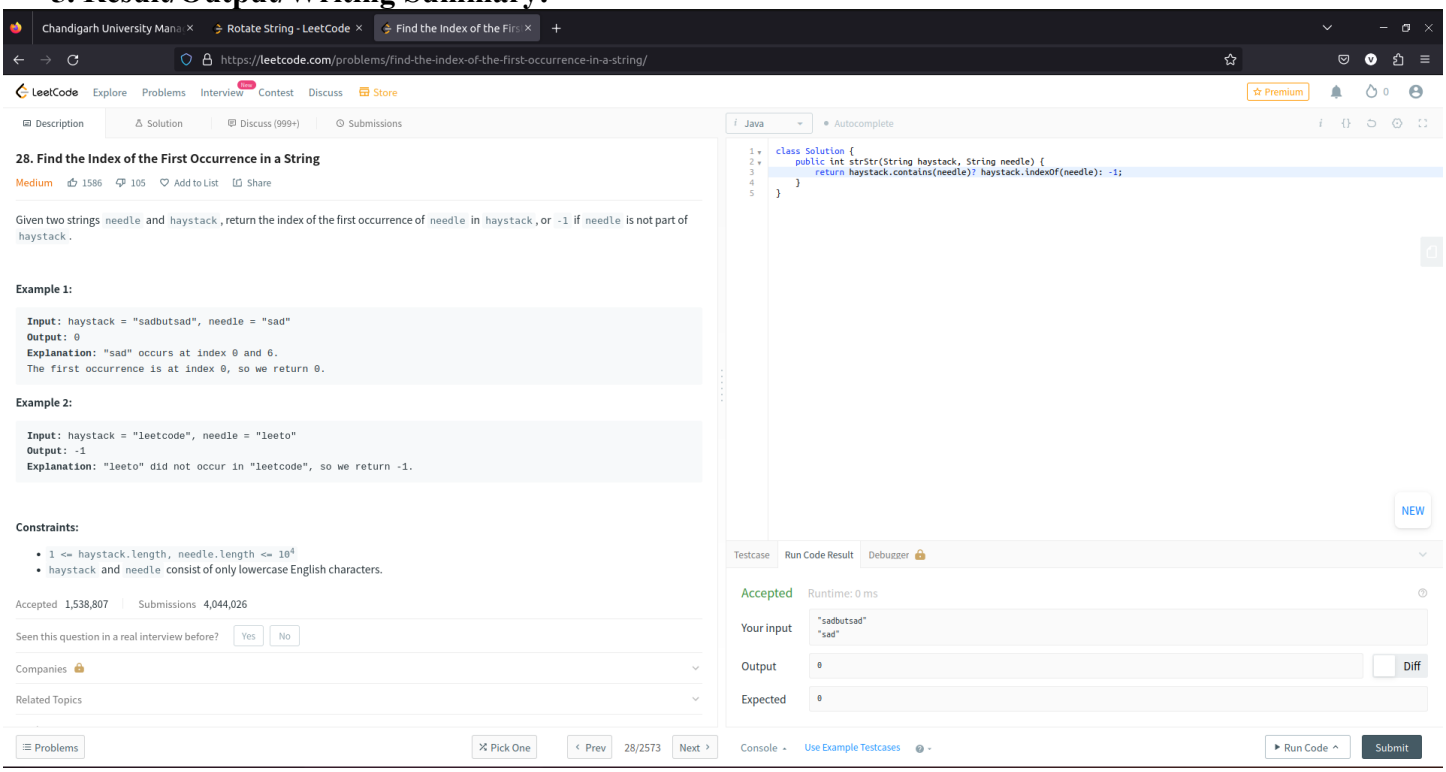
2. **Apparatus / Simulator Used:**
   - Windows 7 or above
   - Google Chrome

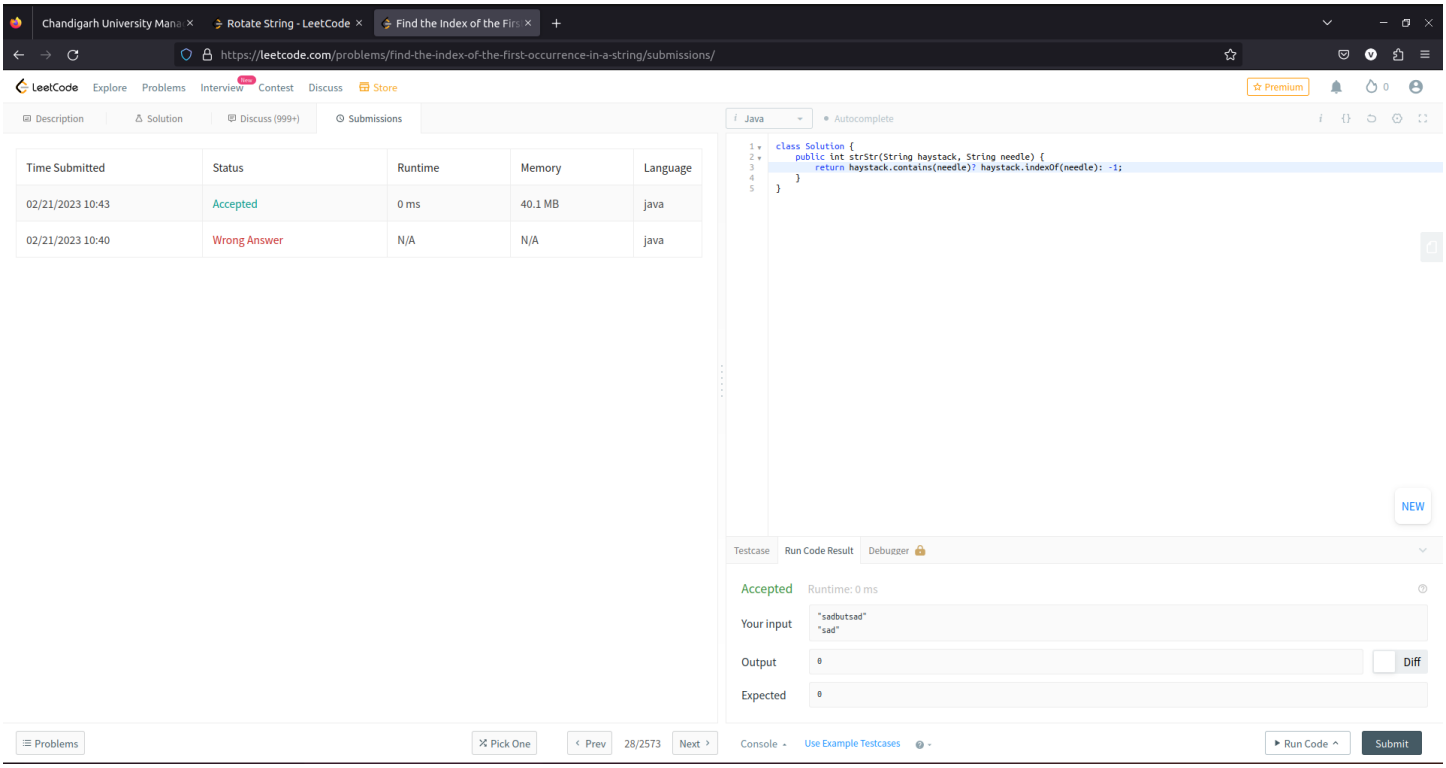
3. **Objective:**
   - To understand the concept of String
   - To implement the concept of Occurance Count.

4. **Code:**

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

5. Result/Output/Writing Summary:





1. **Aim/Overview of the practical:**

Rotate String

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.

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

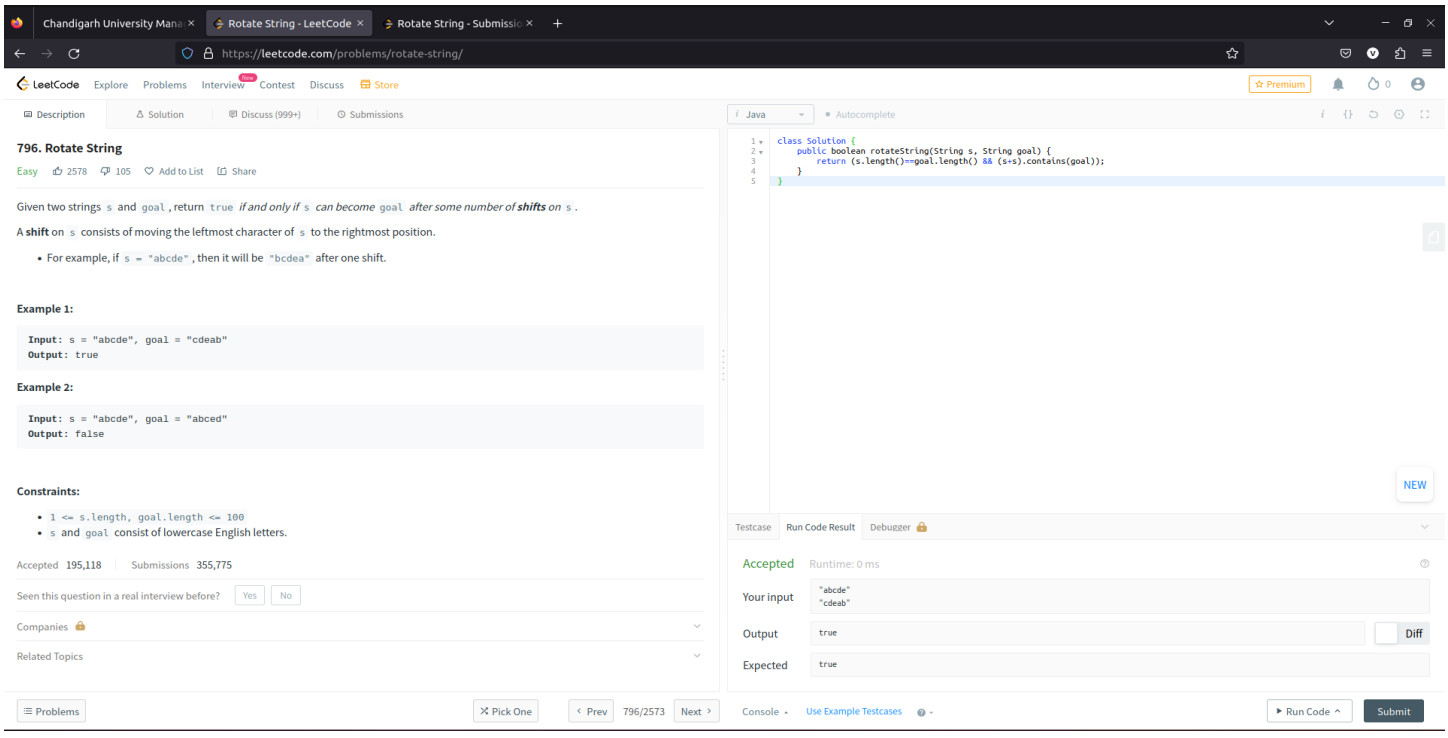
2. **Apparatus / Simulator Used:**
   - Windows 7 or above
   - Google Chrome

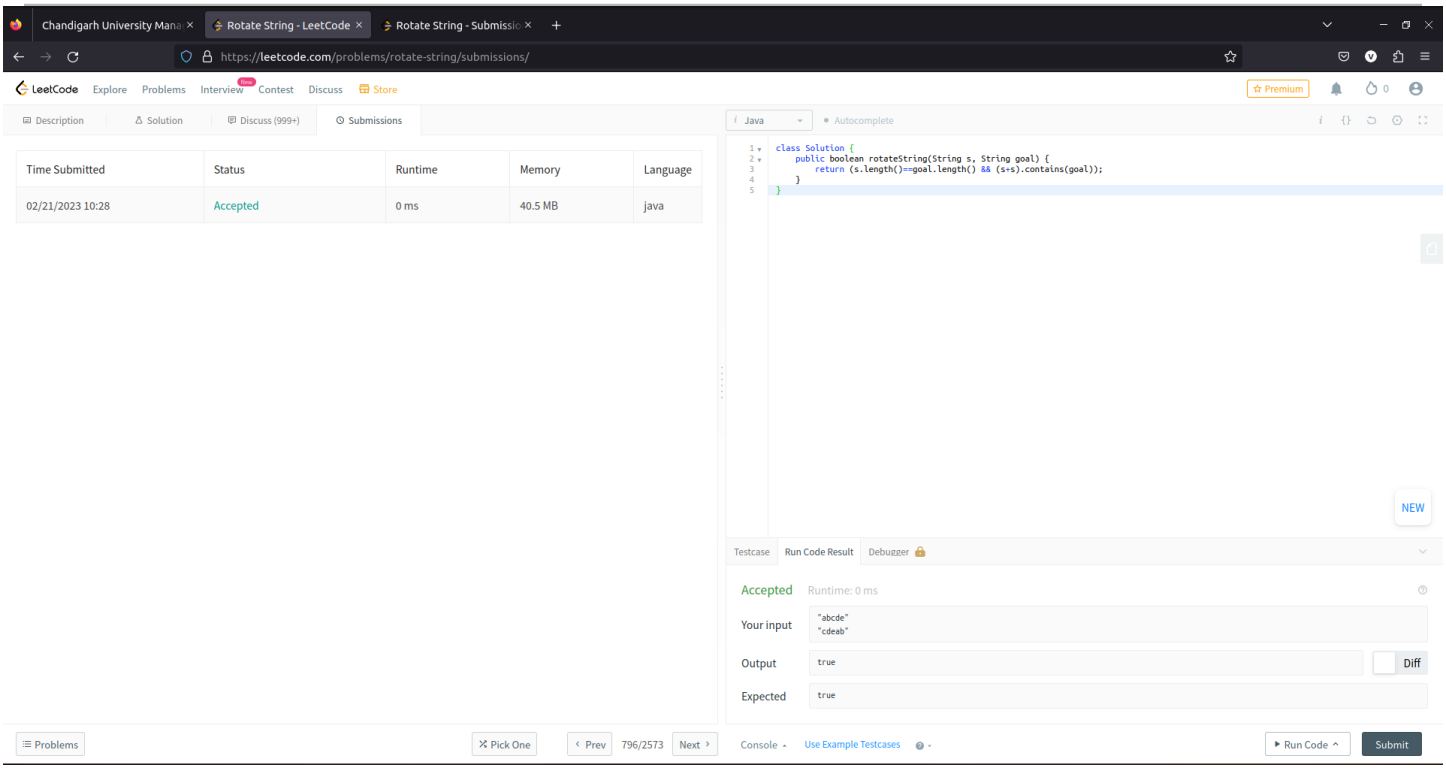
3. **Objective:**
   - To understand the concept of Rotation
   - To implement the concept of String.

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:**





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:	