EXPERIMENT - 2

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Semester: 6th semester **Subject: Competitive Coding**

Task-1: Rotate String

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

Solution:

Input Code:

```
class Solution {
public:
    bool rotateString(string s, string goal) {

        if(s.length()!=goal.length())
            return false;

        string str = s + s;
        size_t found = str.find(goal);

        if(found != string::npos){
            return true;
        }
        else{
            return false;
        }

    }
};
```

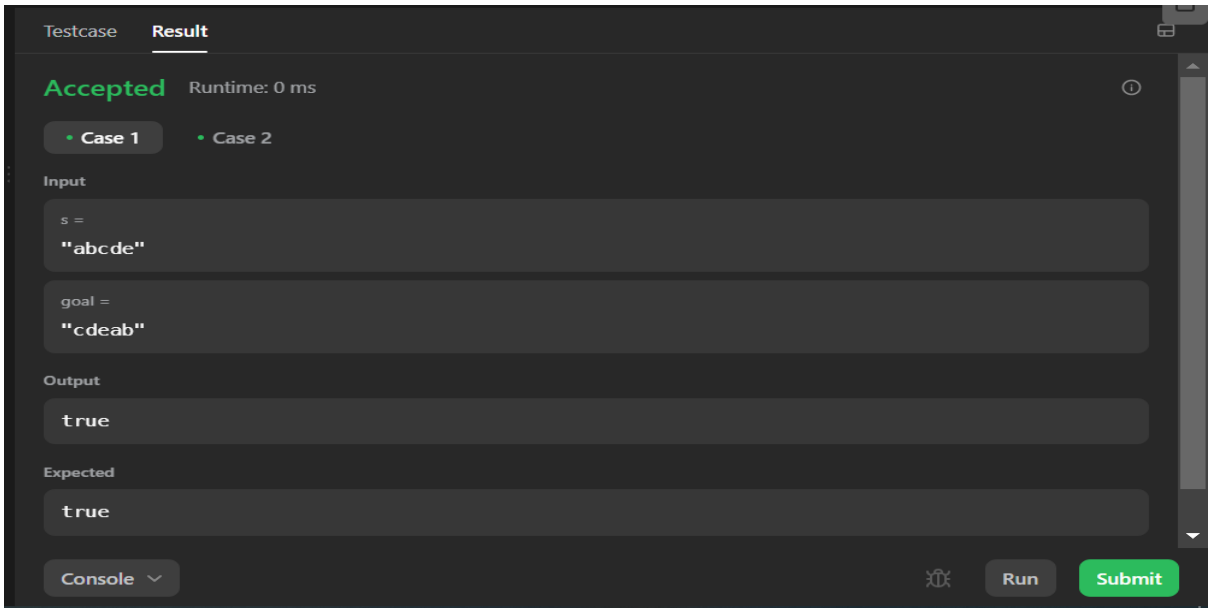
Approach:

Create a new string which will have the double of original.

Ex - s = "abc", then new string str = s + s, which is "abcabc"

now we have to find the goal in str.

Output:



Task-2: Repeated String Match

https://leetcode.com/problems/repeated-string-match/

Solution:

Input code:

```
class Solution {
public:
    int repeatedStringMatch(string a, string b) {

        int n= b.length()/a.length();
        string s=a;
        int res= 1;

        for(int i=0;i<=n+1;i++)
        {
            if(s.find(b)!=string::npos)
            {
                return res;
            }
            s+=a;
```

```
            res++;
        }
        return -1;
    }
};
```

Complexity:

Time complexity:
O(n)

Space complexity:
O(1)

Output: