



## Experiment 1.2

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**Subject Name:** Advance Programming-2

**Subject Code:** 21CSP-251

### 1. Aim:

- To Solve the Rotate String.
- To Solve the Repeated String Match.

### 2. Objective:

- 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.
- Given two strings a and b, return the minimum number of times you should repeat string a so that string b is a substring of it. If it is impossible for b to be a substring of a after repeating it, return -1.

### 3. Algo. /Approach and output:

**1<sup>st</sup>:**

```
class Solution {
bool solve(queue<int> queOne, queue<int> queTwo, int size){
    while(size-->0)
    {
        int front = queTwo.front();
        queTwo.pop();
        queTwo.push(front);
        if(queOne == queTwo){
            return true;
        }
    }
    return false;
}
```

```

    }
    public:
        bool rotateString(string s, string goal) {
            queue<int> queOne;
            queue<int> queTwo;
            if(s.size() != goal.size()){
                return false;
            }
            for(int i = 0; i < s.size(); i++){
                queOne.push(s[i]);
            }
            for(int i = 0; i < goal.size(); i++){
                queTwo.push(goal[i]);
            }
            int size = goal.size();
            return solve(queOne, queTwo, size);
        }
};

```

Accepted

Editorial

Solution



2<sup>nd</sup>:

```

class Solution {
public:

```

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

```
int repeatedStringMatch(string a, string b) {  
    return solve(a, b);  
}  
};
```

Accepted

Editorial

Solution

