DEPARTMENTOF

COMPUTERSCIENCE&ENGINEERING

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Experiment - 1.2

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Semester: 6 **Date of Performance: 30-01-2024**
Subject Name: Advance Programming lab **Subject Code: 21CSP-251**

1. Aim:

- Rotate String- Leet Code
- Camel case Matching- LeetCode

2. Objective:

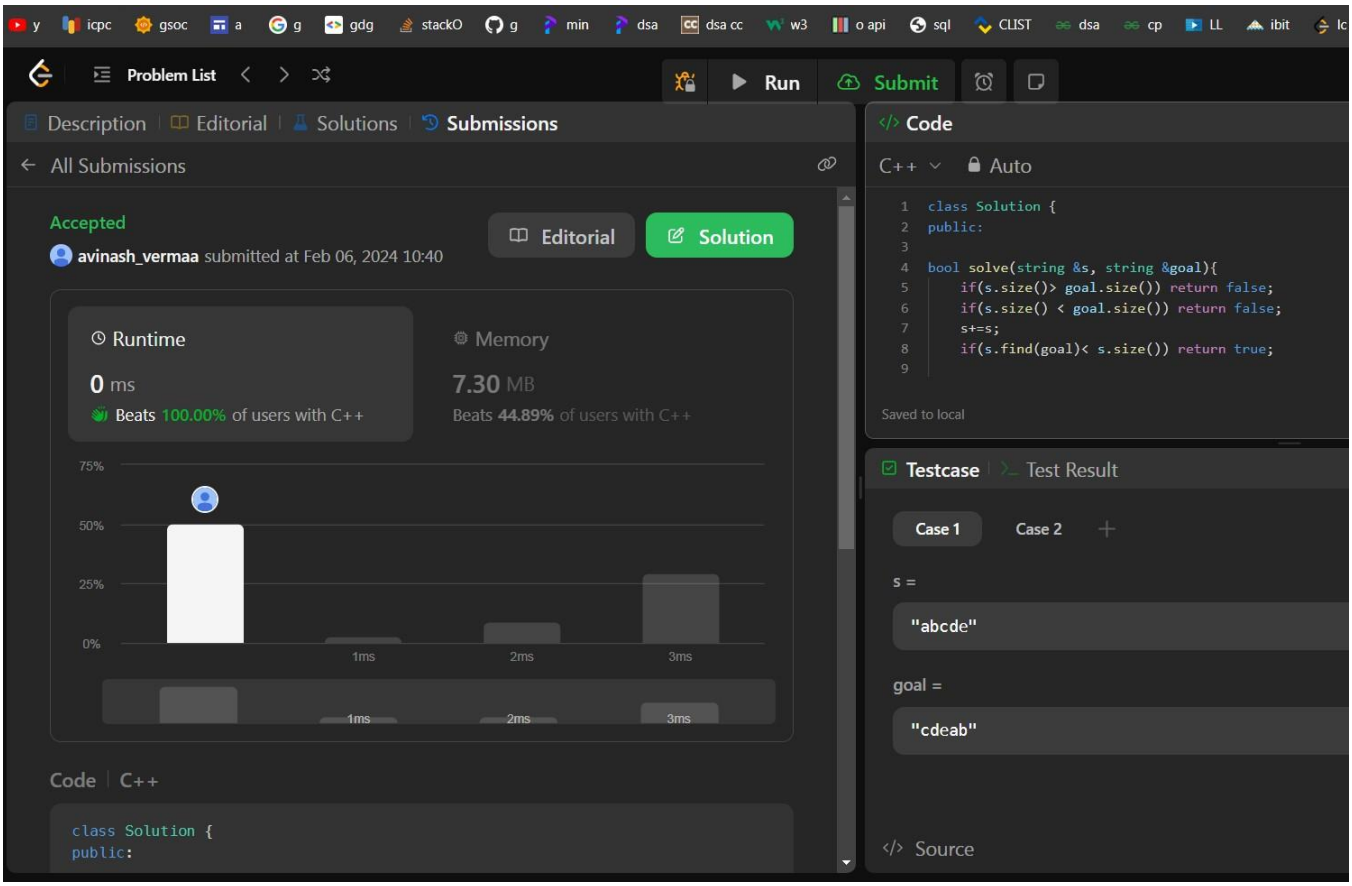
- Given two strings and goal, return true if and only if scan become goal after some number of shifts on s. A shift on s consists of moving the leftmost character of s to the rightmost position.
- Given an array of strings queries and a string pattern, return a boolean array answer where answer[i] is true if queries[i] matches pattern,and false otherwise.

3. Algo./Approach:

(i)

```
class Solution {
public:

bool solve(string &s, string &goal)
{
    if(s.size()> goal.size()) return false;
    if(s.size() < goal.size()) return false;
    s+=s;
    if(s.find(goal)< s.size()) return true;

    return false;
 }

    bool rotateString(string s, string goal)
    {
        return solve(s, goal);
     }
};
```

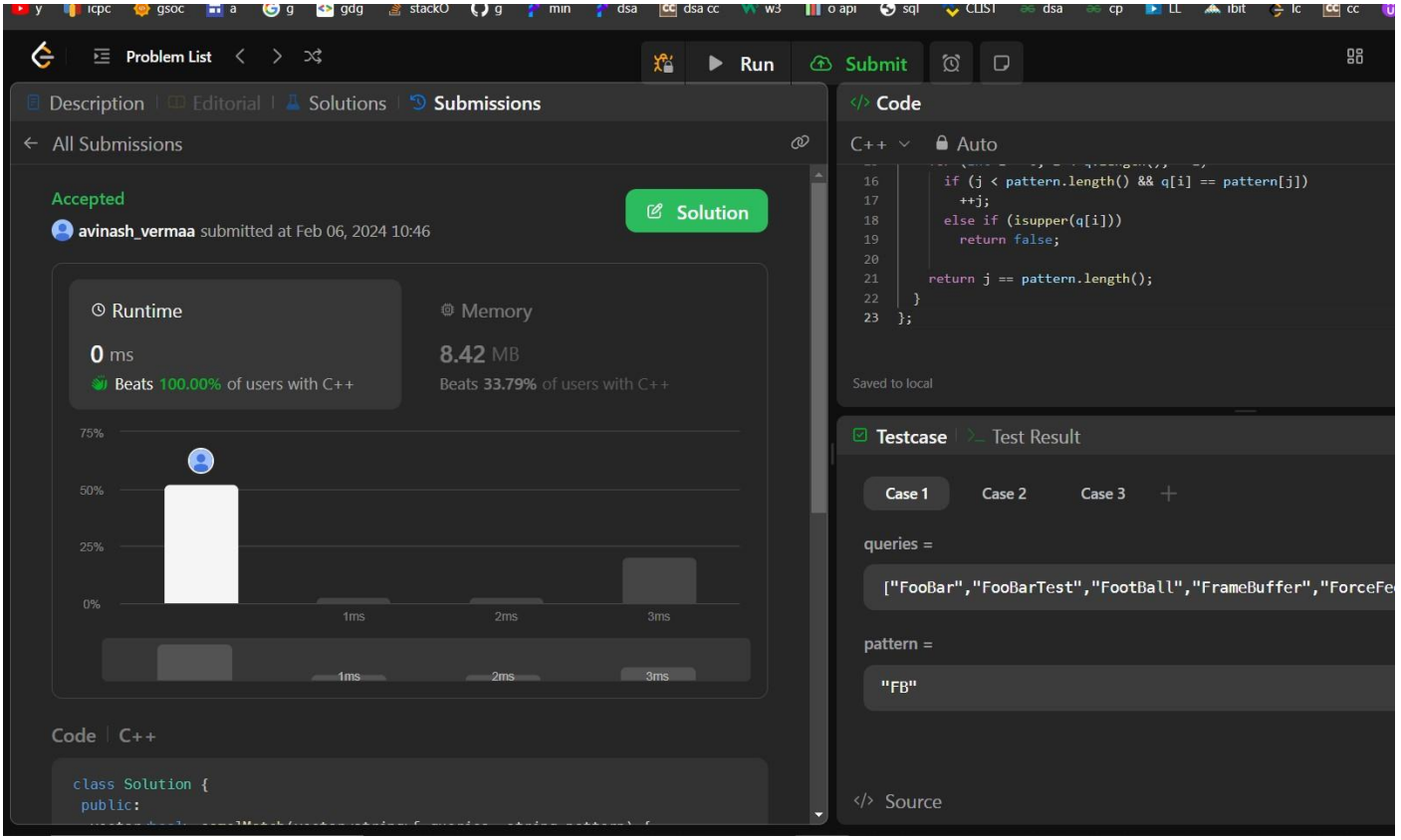
Output:-



(ii)

```
class Solution {
 public:
  vector<bool> camelMatch(vector<string>& queries, string pattern) {
    vector<bool> ans;

    for (const string& q : queries)
      ans.push_back(isMatch(q, pattern));

    return ans;
  }
 private:
  bool isMatch(const string& q, const string& pattern) {
    int j = 0;

    for (int i = 0; i < q.length(); ++i)
      if (j < pattern.length() && q[i] == pattern[j])
        ++j;
      else if (isupper(q[i]))
        return false;

    return j == pattern.length();
  }
};
```

Output:-


Problem List
Run
Submit
Description
Editorial
Solutions
Submissions
All Submissions
Accepted
avinash_vermaa submitted at Feb 06, 2024 10:46
Solution
Runtime
0 ms
Beats 100.00% of users with C++
Memory
8.42 MB
Beats 33.79% of users with C++
75%
50%
25%
0%
1ms
2ms
3ms
Code
C++
class Solution {
public:
Code
C++
Auto
if (j < pattern.length() && q[i] == pattern[j])
++j;
else if (isupper(q[i]))
return false;
return j == pattern.length();
}
};
Saved to local
Testcase
Test Result
Case 1
Case 2
Case 3
queries =
["FooBar","FooBarTest","FootBall","FrameBuffer","ForceFe
pattern =
"FB"
Source