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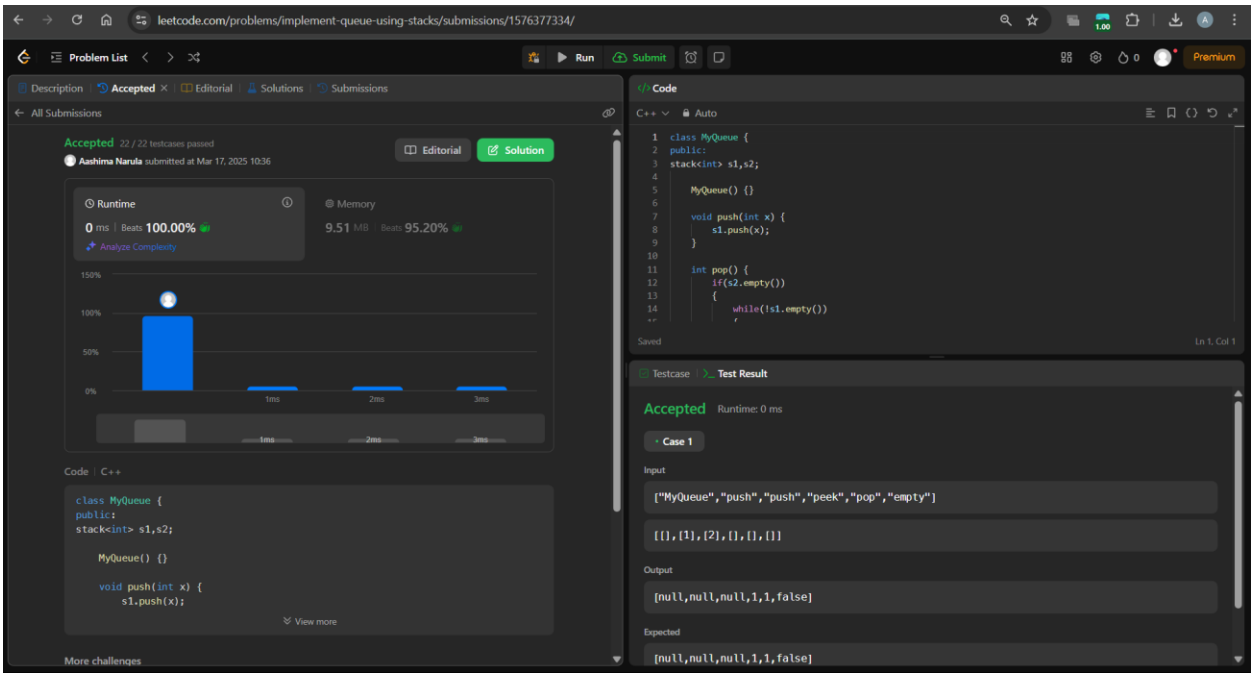
1.Implement Queue using Stack

```
class MyQueue {
public:
stack<int> s1,s2;

    MyQueue() {}

    void push(int x) {
        s1.push(x);
    }

    int pop() {
        if(s2.empty())
        {
            while(!s1.empty())
            {
                s2.push(s1.top());
                s1.pop();
            }
        }
        int front = s2.top();
        s2.pop();
        return front;
    }
```

```
    int peek() {
        if(s2.empty())
        {
            while(!s1.empty())
            {
                s2.push(s1.top());
                s1.pop();
            }
        }
        return s2.top();
    }

    bool empty() {
        return s1.empty() && s2.empty();

    }
};
```


leetcode.com/problems/implement-queue-using-stacks/submissions/1576377334/
Problem List
Run
Submit
Premium
Description
Accepted
Editorial
Solutions
Submissions
All Submissions
Accepted 22 / 22 testcases passed
Aashima Narula submitted at Mar 17, 2025 10:36
Editorial
Solution
Runtime
0 ms | Beats 100.00%
Analyze Complexity
Memory
9.51 MB | Beats 95.20%
150%
100%
50%
0%
1ms
2ms
3ms
Code | C++
class MyQueue {
public:
stack<int> s1,s2;
MyQueue() {}
void push(int x) {
s1.push(x);
View more
More challenges
Code
C++
Auto
class MyQueue {
public:
stack<int> s1,s2;
MyQueue() {}
void push(int x) {
s1.push(x);
}
int pop() {
if(s2.empty())
{
while(!s1.empty())
Saved
Ln 1, Col 1
Testcase
Test Result
Accepted
Runtime: 0 ms
Case 1
Input
["MyQueue","push","push","peek","pop","empty"]
[[],[1],[2],[],[],[]]
Output
[null,null,null,1,1,false]
Expected
[null,null,null,1,1,false]