

Implementing Queue using stack

```
class MyQueue {  
  
private:  
    stack<int> s1;  
    stack<int> s2;  
    int front;  
  
public:  
    MyQueue() { }  
  
    void push(int x) {  
        if (s1.empty()) {  
            front = x;  
        }  
        s1.push(x);  
    }  
  
    int pop() {  
        if (s2.empty()) {  
            while (!s1.empty()) {  
                s2.push(s1.top());  
                s1.pop();  
            }  
        }  
        int val = s2.top();  
        s2.pop();  
        return val;  
    }  
  
    int peek() {  
        return !s2.empty() ? s2.top() : front;  
    }  
  
    bool empty() {  
        return s1.empty() && s2.empty();  
    }  
};
```

```
/**  
 * Your MyQueue object will be instantiated and called as such:  
 * MyQueue* obj = new MyQueue();  
 * obj->push(x);  
 * int param_2 = obj->pop();  
 * int param_3 = obj->peek();  
 * bool param_4 = obj->empty();  
 */
```

Problem List

Description | Editorial | Submissions | Solutions | Accepted

All Submissions

Accepted 22 / 22 testcases passed

12ananya submitted at Mar 16, 2025 17:17

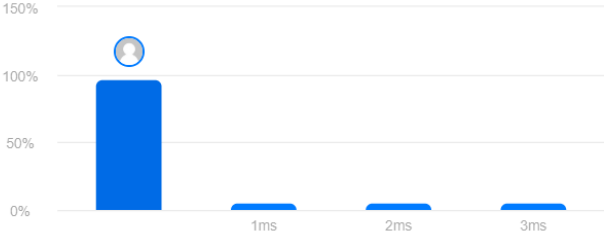
Runtime

0 ms | Beats 100.00%

Analyze Complexity

Memory

9.70 MB | Beats 65.66%



Category	Percentage
Runtime	100%
1ms	~0%
2ms	~0%
3ms	~0%

Code

C++ Auto

```
1 class MyQueue {
2
3 private:
4     stack<int> s1;
5     stack<int> s2;
6     int front;
7
8 public:
9     MyQueue() { }
10
11     void push(int x) {
12         if (s1.empty()) {
13             front = x;
```

Saved

Testcase Test Result

Accepted Runtime: 0 ms

Case 1

Input

["MyQueue","push","push","peek","pop","empty"]