AlgoExpert

Solution 1

Quad Layout

++

12px

Sublime

Monokai

00:00:

Run Code

Our Solution(s)

Run Code

Your Solutions

```
Solution 1 Solution 2 Solution 3
```

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    #include <vector>
    #include <unordered_map>
    using namespace std;
    class MinMaxStack {
      vector<unordered_map<string, int>> minMaxStack = {};
      vector<int> stack = {};
      // O(1) time | O(1) space
      int peek() { return stack[stack.size() - 1]; }
13
14
      // O(1) time | O(1) space
16
      int pop() {
17
       minMaxStack.pop_back();
18
        int result = stack[stack.size() - 1];
       stack.pop_back();
20
       return result;
      // 0(1) time | 0(1) space
24
      void push(int number) {
25
       unordered_map<string, int> newMinMax = {{"min", number}, {"max", number}};
26
        if (minMaxStack.size()) {
27
         unordered_map<string, int> lastMinMax =
28
            minMaxStack[minMaxStack.size() - 1];
          newMinMax["min"] = min(lastMinMax["min"], number);
30
         newMinMax["max"] = max(lastMinMax["max"], number);
32
        minMaxStack.push_back(newMinMax);
33
        stack.push_back(number);
34
35
36
      // O(1) time | O(1) space
      int getMin() { return minMaxStack[minMaxStack.size() - 1]["min"]; }
39
      // O(1) time | O(1) space
      int getMax() { return minMaxStack[minMaxStack.size() - 1]["max"]; }
```

```
1 using namespace std;
    \ensuremath{//} Feel free to add new properties and methods to the class.
    class MinMaxStack {
    public:
      int peek() {
       // Write your code here.
        return -1;
10
      int pop() {
12
       // Write your code here.
13
        return -1;
14
16
      void push(int number) {
       // Write your code here.
18
19
20
      int getMin() {
       // Write your code here.
        return -1;
24
25
      int getMax() {
26
       // Write your code here.
        return -1;
28
29
30
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.