Run Code

Your Solutions

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 #include <vector>
4 #include <unordered_map>
 5 using namespace std;
7 class MinMaxStack {
9
     vector<unordered_map<string, int>> minMaxStack = {};
10
     vector<int> stack = {};
11
12
     // 0(1) time | 0(1) space
13
     int peek() { return stack[stack.size() - 1]; }
14
15
     // O(1) time | O(1) space
16
     int pop() {
17
      minMaxStack.pop_back();
18
       int result = stack[stack.size() - 1];
19
       stack.pop_back();
20
       return result;
21
23
     // 0(1) time | 0(1) space
24
     void push(int number) {
25
       unordered_map<string, int> newMinMax = {{"min", number}, {"m
       if (minMaxStack.size()) {
26
27
         unordered_map<string, int> lastMinMax =
             minMaxStack[minMaxStack.size() - 1];
28
29
         newMinMax["min"] = min(lastMinMax["min"], number);
         newMinMax["max"] = max(lastMinMax["max"], number);
30
31
32
       minMaxStack.push_back(newMinMax);
33
       stack.push_back(number);
```

```
Solution 1
             Solution 2
1 using namespace std;
  \ensuremath{//} Feel free to add new properties and methods to the class.
4 class MinMaxStack {
5 public:
     int peek() {
       // Write your code here.
       return -1;
```

Run Code

28

29 };

30

Solution 1

