

PromptScratchpadOur Solution(s)Video ExplanationRun Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     class MinMaxStack {
5         var minMaxStack = [[String: Int]]()
6         var stack = [Int]()
7
8         // O(1) time | O(1) space
9         func peek() -> Int? {
10             return stack.last
11         }
12
13         // O(1) time | O(1) space
14         func pop() -> Int? {
15             minMaxStack.popLast()
16
17             return stack.popLast()
18         }
19
20         // O(1) time | O(1) space
21         func push(number: Int) {
22             var newMinMax = ["min": number, "max": number]
23
24             if let lastMinMax = minMaxStack.last {
25                 newMinMax["min"] = min(lastMinMax["min"]!, newMinMax["min"]!)
26                 newMinMax["max"] = max(lastMinMax["max"]!, newMinMax["max"]!)
27             }
28
29             minMaxStack.append(newMinMax)
30             stack.append(number)
31         }
32
33         // O(1) time | O(1) space
34         func getMin() -> Int? {
35             return minMaxStack.last?["min"]
36         }
37
38         // O(1) | O(1) space
39         func getMax() -> Int? {
40             return minMaxStack.last?["max"]
41         }
42     }
43 }
44
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 class Program {
2     // Feel free to add new properties and methods to the class.
3     class MinMaxStack {
4         func peek() -> Int? {
5             // Write your code here.
6             return nil
7         }
8
9         func pop() -> Int? {
10             // Write your code here.
11             return nil
12         }
13
14         func push(number: Int) {
15             // Write your code here.
16         }
17
18         func getMin() -> Int? {
19             // Write your code here.
20             return nil
21         }
22
23         func getMax() -> Int? {
24             // Write your code here.
25             return nil
26         }
27     }
28 }
29
```

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.