AlgoExpert

Solution 1

65

66

return a

Quad Layout

Go

12px

Your Solutions

1 package main

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run

```
Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   package main
   type MinMaxStack struct {
               []int
     minMaxStack []entry
10 type entry struct {
    min int
12
     max int
13 }
14
   func NewMinMaxStack() *MinMaxStack {
15
     return &MinMaxStack{}
16
18
   // O(1) time | O(1) space
19
   func (stack *MinMaxStack) Peek() int {
20
     return stack.stack[len(stack.stack)-1]
22
   // O(1) time | O(1) space
24
   func (stack *MinMaxStack) Pop() int {
25
26
     stack.minMaxStack = stack.minMaxStack[:len(stack.minMaxStack)-1]
27
     out := stack.stack[len(stack.stack)-1]
28
     stack.stack = stack.stack[:len(stack.stack)-1]
29
     return out
30 }
32
   // O(1) time | O(1) space
   func (stack *MinMaxStack) Push(number int) {
34
     newMinMax := entry{min: number, max: number}
      if len(stack.minMaxStack) > 0 {
36
       lastMinMax := stack.minMaxStack[len(stack.minMaxStack)-1]
       newMinMax.min = min(lastMinMax.min, number)
38
       newMinMax.max = max(lastMinMax.max, number)
39
     stack.minMaxStack = append(stack.minMaxStack, newMinMax)
41
     stack.stack = append(stack.stack, number)
43
   // O(1) time | O(1) space
   func (stack *MinMaxStack) GetMin() int {
46
    return stack.minMaxStack[len(stack.minMaxStack)-1].min
47
48
49
   // O(1) time | O(1) space
   func (stack *MinMaxStack) GetMax() int {
50
51
     return stack.minMaxStack[len(stack.minMaxStack)-1].max
52
   func min(a, b int) int {
54
     if a < b {
56
      return a
58
     return b
59
60
61 func max(a, b int) int {
     if a < b {
      return b
64
```

Solution 1 Solution 2 Solution 3

```
3 type MinMaxStack struct {
     // Write your code here.
   func NewMinMaxStack() *MinMaxStack {
     // Write your code here.
     return nil
12 func (stack *MinMaxStack) Peek() int {
13
    // Write your code here.
14
     return -1
15 }
16
17 func (stack *MinMaxStack) Pop() int {
     // Write your code here.
18
19
     return -1
20 }
22 func (stack *MinMaxStack) Push(number int) {
     // Write your code here.
24 }
26 func (stack *MinMaxStack) GetMin() int {
    // Write your code here.
28
    return -1
29 }
30
31 func (stack *MinMaxStack) GetMax() int {
32 // Write your code here.
33
     return -1
34 }
35
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.