

Our Solution(s)	Run Code
Solution 1	
<pre>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"]!, newMi 26 newMinMax["max"] = max(lastMinMax["max"]!, newMi 27 } 28 29 minMaxStack.append(newMinMax) 30 stack.append(number) 31 } 32 33 // O(1) time O(1) space</pre>	

Your Solutions	Run Code
Solution 1 Solution 2 Solution 3	
<pre>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</pre>	

```

1 from math import *
2 def program = Program()
3 mathem("Test case 2")
4 def ResultTest = Program(ResultTest())
5 ResultTest.add()
6 def ResultTest.add() ResultTest, 100, 1, 100, 1
7 ResultTest.add()
8 def ResultTest.add() ResultTest, 100, 1, 100, 1
9 def ResultTest.add() ResultTest, 100, 1, 100, 1
10 ResultTest.add()
11 def ResultTest.add() ResultTest, 100, 1, 100, 1
12 ResultTest.add()
13 def ResultTest.add() ResultTest, 100, 1, 100, 1
14 ResultTest.add()
15 def ResultTest.add() ResultTest, 100, 1, 100, 1
16 ResultTest.add()
17 def ResultTest.add() ResultTest, 100, 1, 100, 1
18 def ResultTest.add() ResultTest, 100, 1, 100, 1
19 def ResultTest.add() ResultTest, 100, 1, 100, 1
20 def ResultTest.add() ResultTest, 100, 1, 100, 1

```

Run or submit code when you're ready.