Solution 1 Solution 2 Solution 3

Solution 1

Prompt

49 50

Our Solution(s) Scratchpad

Video Explanation Run Code

Your Solutions

```
Run Code
```

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    using System;
    using System.Collections.Generic;
    public class Program {
      public class MinMaxStack {
        List<Dictionary<string, int> > minMaxStack = new List<Dictionary<string, int>
        List<int> stack = new List<int>();
        // O(1) time | O(1) space
        public int Peek() {
13
          return stack[stack.Count - 1];
14
        // O(1) time | O(1) space
16
17
        public int Pop() {
          minMaxStack.RemoveAt(minMaxStack.Count - 1);
18
          var val = stack[stack.Count - 1];
          stack.RemoveAt(stack.Count - 1);
20
          return val;
        // O(1) time | O(1) space
24
25
        public void Push(int number) {
26
          Dictionary<string, int> newMinMax = new Dictionary<string, int>();
          newMinMax.Add("min", number);
newMinMax.Add("max", number);
27
28
29
          if (minMaxStack.Count > 0) {
30
            Dictionary<string, int> lastMinMax = new Dictionary<string, int>(
              minMaxStack[minMaxStack.Count - 1]
32
33
            newMinMax["min"] = Math.Min(lastMinMax["min"], number);
34
            newMinMax["max"] = Math.Max(lastMinMax["max"], number);
35
36
          minMaxStack.Add(newMinMax);
          stack.Add(number);
38
39
40
        // O(1) time | O(1) space
41
        public int GetMin() {
42
          return minMaxStack[minMaxStack.Count - 1]["min"];
43
45
        // O(1) time | O(1) space
46
        public int GetMax() {
47
          return minMaxStack[minMaxStack.Count - 1]["max"];
48
```

```
public class Program {
      // Feel free to add new properties and methods to the class.
      public class \ MinMaxStack \ \{
        public int Peek() {
          // Write your code here.
          return -1;
        public int Pop() {
10
          // Write your code here.
          return -1;
12
13
14
        public void Push(int number) {
16
         // Write your code here.
18
19
20
        public int GetMin() {
         // Write your code here.
          return -1;
24
        public int GetMax() {
          // Write your code here.
28
          return -1:
29
30
31
```

Run or submit code when you're ready.