Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
 5
   class Program {
 6
     static class MinMaxStack {
        List<Map<String, Integer>> minMaxStack = new ArrayList<Map<!</pre>
        List<Integer> stack = new ArrayList<Integer>();
9
10
        // O(1) time | O(1) space
        public int peek() {
11
12
          return stack.get(stack.size() - 1);
13
14
15
        // O(1) time | O(1) space
16
        public int pop() {
17
          minMaxStack.remove(minMaxStack.size() - 1);
18
          return stack.remove(stack.size() - 1);
19
20
        // O(1) time | O(1) space
21
        public void push(int number) {
23
          Map<String, Integer> newMinMax = new HashMap<String, Integ</pre>
24
          newMinMax.put("min", number);
25
          newMinMax.put("max", number);
26
          if (minMaxStack.size() > 0) {
27
            Map<String, Integer> lastMinMax =
28
                new HashMap<String, Integer>(minMaxStack.get(minMaxS
29
            newMinMax.replace("min", Math.min(lastMinMax.get("min"),
```

newMinMax.replace("max", Math.max(lastMinMax.get("max"),

minMaxStack.add(newMinMax);

stack.add(number);

Your Solutions Run Code

Solution 1

```
Solution 2
 1 class Program {
     // Feel free to add new properties and methods to the class.
     static class MinMaxStack {
       public int peek() {
         // Write your code here.
         return -1;
9
       public int pop() {
10
         // Write your code here.
11
         return -1;
12
13
14
       public void push(Integer number) {
15
         // Write your code here.
16
17
       public int getMin() {
18
19
         // Write your code here.
         return -1;
20
21
23
       public int getMax() {
24
         // Write your code here.
25
         return -1;
26
27
28 }
```

30 31

32 33 Run or submit code when you're ready.