Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   using System;
4
   public class Program {
     // O(n) time | O(1) space
     public static int[] FindThreeLargestNumbers(int[] array) {
       int[] threeLargest = {Int32.MinValue, Int32.MinValue, Int32.MinVal
        foreach (int num in array) {
9
         updateLargest(threeLargest, num);
10
11
       return threeLargest;
12
13
14
     public static void updateLargest(int[] threeLargest, int num) {
15
        if (num > threeLargest[2]) {
16
         shiftAndUpdate(threeLargest, num, 2);
17
       } else if (num > threeLargest[1]) {
18
         shiftAndUpdate(threeLargest, num, 1);
19
       } else if (num > threeLargest[0]) {
20
          shiftAndUpdate(threeLargest, num, 0);
21
22
23
24
     public static void shiftAndUpdate(int[] array, int num, int idx) {
25
       for (int i = 0; i <= idx; i++) \{
26
          if (i == idx) {
27
           array[i] = num;
28
          } else {
29
            array[i] = array[i + 1];
30
31
32
33 }
34
```

```
public class Program {
   public static int[] FindThreeLargestNumbers(int[] array) {
      // Write your code here.
      return null;
   }
}
```

Run or submit code when you're ready.

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