

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code	Your Solutions	Run Code
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Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 public class Program {
4     // O(n) time | O(1) space - where n is the length of the array
5     public static bool IsMonotonic(int[] array) {
6         if (array.Length <= 2) return true;
7
8         var direction = array[1] - array[0];
9         for (int i = 2; i < array.Length; i++) {
10             if (direction == 0) {
11                 direction = array[i] - array[i - 1];
12                 continue;
13             }
14
15             if (breaksDirection(direction, array[i - 1], array[i])) {
16                 return false;
17             }
18         }
19         return true;
20     }
21
22     public static bool breaksDirection(int direction, int previous, int current) {
23         var difference = current - previous;
24         if (direction > 0) return difference < 0;
25         return difference > 0;
26     }
27 }
28
```

Solution 1Solution 2Solution 3

```
1 public class Program {
2     public static bool IsMonotonic(int[] array) {
3         // Write your code here.
4         return false;
5     }
6 }
7
```

Run or submit code when you're ready.