

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System;
4 public class Program {
5     // O(n) time | O(1) space
6     public static int KadanesAlgorithm(int[] array) {
7         int maxEndingHere = array[0];
8         int maxSoFar = array[0];
9         for (int i = 1; i < array.Length; i++) {
10             int num = array[i];
11             maxEndingHere = Math.Max(num, maxEndingHere + num);
12             maxSoFar = Math.Max(maxSoFar, maxEndingHere);
13         }
14         return maxSoFar;
15     }
16 }
17
```

Solution 1 Solution 2 Solution 3

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

Run or submit code when you're ready.
