

Our Solution(s)	Run Code	Your Solutions	Run Code
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Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using namespace std;
4
5 // O(n) time | O(1) space - where n is the length of the input array
6 int longestPeak(vector<int> array) {
7     int longestPeakLength = 0;
8     int i = 1;
9     while (i < int(array.size()) - 1) {
10         bool isPeak = array[i - 1] < array[i] && array[i] > array[i + 1];
11         if (!isPeak) {
12             i += 1;
13             continue;
14         }
15
16         int leftIdx = i - 2;
17         while (leftIdx >= 0 && array[leftIdx] < array[leftIdx + 1]) {
18             leftIdx -= 1;
19         }
20
21         int rightIdx = i + 2;
22         while (rightIdx < array.size() && array[rightIdx] < array[rightIdx - 1]) {
23             rightIdx += 1;
24         }
25         int currentPeakLength = rightIdx - leftIdx - 1;
26         longestPeakLength = max(longestPeakLength, currentPeakLength);
27         i = rightIdx;
28     }
29     return longestPeakLength;
30 }
31
```

Solution 1   Solution 2   Solution 3

```
1 using namespace std;
2
3 int longestPeak(vector<int> array) {
4     // Write your code here.
5     return -1;
6 }
7
```

Custom Output

Raw Output

Submit Code

**Run or submit code when you're ready.**