

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System.Collections.Generic;
4
5 public class Program {
6     // O(n) time | O(n) space
7     public static int[] LargestRange(int[] array) {
8         int[] bestRange = new int[2];
9         int longestLength = 0;
10        HashSet<int> nums = new HashSet<int>();
11        foreach (int num in array) {
12            nums.Add(num);
13        }
14        foreach (int num in array) {
15            if (!nums.Contains(num)) {
16                continue;
17            }
18            nums.Remove(num);
19            int currentLength = 1;
20            int left = num - 1;
21            int right = num + 1;
22            while (nums.Contains(left)) {
23                nums.Remove(left);
24                currentLength++;
25                left--;
26            }
27            while (nums.Contains(right)) {
28                nums.Remove(right);
29                currentLength++;
30                right++;
31            }
32            if (currentLength > longestLength) {
33                longestLength = currentLength;
34                bestRange = new int[] {left + 1, right - 1};
35            }
36        }
37        return bestRange;
38    }
39 }
40
```