

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System;
4 using System.Collections.Generic;
5
6 public class Program {
7     // O(n^2) time | O(n) space
8     public static List<List<int> > MaxSumIncreasingSubsequence(int[] array) {
9         int[] sequences = new int[array.Length];
10        Array.Fill(sequences, Int32.MinValue);
11        int[] sums = (int[]) array.Clone();
12        int maxSumIdx = 0;
13        for (int i = 0; i < array.Length; i++) {
14            int currentNum = array[i];
15            for (int j = 0; j < i; j++) {
16                int otherNum = array[j];
17                if (otherNum < currentNum && sums[j] + currentNum >= sums[i])
18                    sums[i] = sums[j] + currentNum;
19                sequences[i] = j;
20            }
21        }
22        if (sums[i] >= sums[maxSumIdx]) {
23            maxSumIdx = i;
24        }
25    }
26    return buildSequence(array, sequences, maxSumIdx, sums[maxSumIdx])
27 }
28
29 public static List<List<int> > buildSequence(int[] array, int[] sequences,
30 int sums) {
31     List<List<int> > sequence = new List<List<int> >();
32     sequence.Add(new List<int>());
33     sequence.Add(new List<int>());
```

Solution 1

Solution 2

Solution 3

```
1 using System.Collections.Generic;
2
3 public class Program {
4     public static List<List<int> > MaxSumIncreasingSubsequence(int[] array) {
5         // Write your code here.
6         return null;
7     }
8 }
9
```

Our Tests

Custom Output

Submit Code

1

using System;

2

using System.Collections.Generic;

3

public class Program {

4

//

5

public static List<List<int> >

6

return null;

7

}

1

using System.Collections.Generic;

2

using System;

3

public class Program {

4

// Write your code here.

5

return null;

6

}

Custom Output

Submit Code

