Solution 1 Solution 2

Our Solution(s)

```
Run Code
```

```
Your Solutions
```

Run Code

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   class Program {
     // O(n^2) time | O(n) space
     public static List<Integer> longestIncreasingSubsequence(int[] arra
        int[] sequences = new int[array.length];
9
       Arrays.fill(sequences, Integer.MIN_VALUE);
10
       int[] lengths = new int[array.length];
11
       Arrays.fill(lengths, 1);
       int maxLengthIdx = 0;
12
        for (int i = 0; i < array.length; i++) {</pre>
         int currentNum = array[i];
14
15
          for (int j = 0; j < i; j++) {
16
           int otherNum = array[j];
17
            if (otherNum < currentNum && lengths[j] + 1 >= lengths[i]) {
18
             lengths[i] = lengths[j] + 1;
19
              sequences[i] = j;
20
21
          if (lengths[i] >= lengths[maxLengthIdx]) {
           maxLengthIdx = i;
24
26
       return buildSequence(array, sequences, maxLengthIdx);
27
28
29
     public static List<Integer> buildSequence(int[] array, int[] sequenc
30
       List<Integer> sequence = new ArrayList<Integer>();
31
        while (currentIdx != Integer.MIN_VALUE) {
          sequence.add(0, array[currentIdx]);
33
          currentIdx = sequences[currentIdx];
```

Run or submit code when you're ready.

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