AlgoExpert

Quad Layout

Swift

14px

Sublime

Monokai

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Our Solution(s)

Run Code

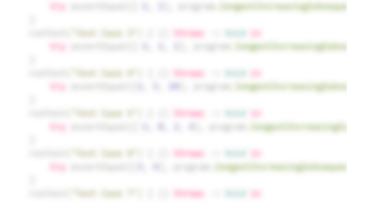
Your Solutions

Run Code

```
Solution 1 Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
        // O(n^2) time | O(n) space
        func\ longestIncreasingSubsequence(\_\ array:\ [Int])\ \rightarrow\ [Int]\ \{
            var indexOfMaxLength: Int? = 0
            var lengths = Array(repeating: 1, count: array.count)
            var sequences: [Int?] = Array(repeating: nil, count: array.co
 9
10
            for i in 0 ... array.count {
11
                let currentNumber = array[i]
12
13
                for j in 0 ... i {
                    let otherNumber = array[j]
14
                    if otherNumber < currentNumber, lengths[i] <= lengths[</pre>
16
17
                        lengths[i] = lengths[j] + 1
                        sequences[i] = j
18
19
20
21
22
                if lengths[i] > lengths[indexOfMaxLength!] {
23
                    indexOfMaxLength = i
25
26
27
            return buildSequence(array, sequences, &indexOfMaxLength)
28
29
30
        func buildSequence(_ array: [Int], _ sequences: [Int?], _ currentI
31
            var sequence = [Int]()
32
            while currentIndex != nil {
33
```

```
class Program {
   func longestIncreasingSubsequence(_ array: [Int]) -> [Int] {
        // Write your code here.
        return []
   }
}
```

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Run or submit code when you're ready.