

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n^2) time | O(n) space
4 def maxSumIncreasingSubsequence(array):
5     sequences = [None for x in array]
6     sums = [num for num in array]
7     maxSumIdx = 0
8     for i in range(len(array)):
9         currentNum = array[i]
10        for j in range(0, i):
11            otherNum = array[j]
12            if otherNum < currentNum and sums[j] + currentNum >= sums[i]:
13                sums[i] = sums[j] + currentNum
14                sequences[i] = j
15            if sums[i] >= sums[maxSumIdx]:
16                maxSumIdx = i
17    return [sums[maxSumIdx], buildSequence(array, sequences, maxSumIdx)]
18
19
20 def buildSequence(array, sequences, currentIndex):
21     sequence = []
22     while currentIndex is not None:
23         sequence.append(array[currentIndex])
24         currentIndex = sequences[currentIndex]
25     return list(reversed(sequence))
26
```

Solution 1

Solution 2

Solution 3

```
1 def maxSumIncreasingSubsequence(array):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code

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def maxSumIncreasingSubsequence(array):

Write your code here.

pass

Custom Output

Submit Code

Run or submit code when you're ready.