

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4
5 class Program {
6     // O(n^2) time | O(n) space
7     public static List<List<Integer>> maxSumIncreasingSubsequence(int[]
8         int[] sequences = new int[array.length];
9         Arrays.fill(sequences, Integer.MIN_VALUE);
10        int[] sums = array.clone();
11        int maxSumIdx = 0;
12        for (int i = 0; i < array.length; i++) {
13            int currentNum = array[i];
14            for (int j = 0; j < i; j++) {
15                int otherNum = array[j];
16                if (otherNum < currentNum && sums[j] + currentNum >= sums[i])
17                    sums[i] = sums[j] + currentNum;
18                sequences[i] = j;
19            }
20        }
21        if (sums[i] >= sums[maxSumIdx]) {
22            maxSumIdx = i;
23        }
24    }
25    return buildSequence(array, sequences, maxSumIdx, sums[maxSumIdx])
26 }
27
28 public static List<List<Integer>> buildSequence(
29     int[] array, int[] sequences, int currentIdx, int sums) {
30     List<List<Integer>> sequence = new ArrayList<List<Integer>>();
31     sequence.add(new ArrayList<Integer>());
32     sequence.add(new ArrayList<Integer>());
33     sequence.get(0).add(sums);
```

Solution 1   Solution 2   Solution 3

```
1 import java.util.*;
2
3 class Program {
4     public static List<List<Integer>> maxSumIncreasingSubsequence(int[]
5         // Write your code here.
6         return null;
7     }
8 }
9
```

Our Tests

Custom Output

Submit Code

1

2

3

4

5

6

7

import java.util.\*;

class Program {

// Write your code here.

return null;

}

```
10 # Write your code here
11
12 # Print
13 # Print the first element of the list
14 print(my_list[0])
15 # Print the last element of the list
16 print(my_list[-1])
17
18 # Print
19 # Print the first element of the list
20 print(my_list[0])
21 # Print the last element of the list
22 print(my_list[-1])
23
24 # Print
25 # Print the first element of the list
26 print(my_list[0])
27 # Print the last element of the list
28 print(my_list[-1])
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30 # Print
31 # Print the first element of the list
32 print(my_list[0])
33 # Print the last element of the list
34 print(my_list[-1])
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36 # Print
37 # Print the first element of the list
38 print(my_list[0])
39 # Print the last element of the list
40 print(my_list[-1])
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42 # Print
43 # Print the first element of the list
44 print(my_list[0])
45 # Print the last element of the list
46 print(my_list[-1])
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48 # Print
49 # Print the first element of the list
50 print(my_list[0])
51 # Print the last element of the list
52 print(my_list[-1])
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54 # Print
55 # Print the first element of the list
56 print(my_list[0])
57 # Print the last element of the list
58 print(my_list[-1])
59
60 # Print
61 # Print the first element of the list
62 print(my_list[0])
63 # Print the last element of the list
64 print(my_list[-1])
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66 # Print
67 # Print the first element of the list
68 print(my_list[0])
69 # Print the last element of the list
70 print(my_list[-1])
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72 # Print
73 # Print the first element of the list
74 print(my_list[0])
75 # Print the last element of the list
76 print(my_list[-1])
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78 # Print
79 # Print the first element of the list
80 print(my_list[0])
81 # Print the last element of the list
82 print(my_list[-1])
83
84 # Print
85 # Print the first element of the list
86 print(my_list[0])
87 # Print the last element of the list
88 print(my_list[-1])
89
90 # Print
91 # Print the first element of the list
92 print(my_list[0])
93 # Print the last element of the list
94 print(my_list[-1])
95
96 # Print
97 # Print the first element of the list
98 print(my_list[0])
99 # Print the last element of the list
100 print(my_list[-1])
```

Run or submit code when you're ready.