

Our Solution(s)

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # Best: O(n) time | O(1) space
4 # Average: O(n^2) time | O(1) space
5 # Worst: O(n^2) time | O(1) space
6 def bubbleSort(array):
7     isSorted = False
8     counter = 0
9     while not isSorted:
10         isSorted = True
11         for i in range(len(array) - 1 - counter):
12             if array[i] > array[i + 1]:
13                 swap(i, i + 1, array)
14                 isSorted = False
15         counter += 1
16     return array
17
18
19 def swap(i, i + 1, array):
```

Our Tests

```
1 # Test 1
2 # Input: [5, 4, 3, 2, 1]
3 # Output: [1, 2, 3, 4, 5]
4
5 # Test 2
6 # Input: [1, 2, 3, 4, 5]
7 # Output: [1, 2, 3, 4, 5]
8
9 # Test 3
10 # Input: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
11 # Output: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

Your Solutions

Run Code

Solution 1 Solution 2 Solution 3

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

Custom Output

Raw Output

Submit Code

Run or submit code when you're ready.