

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // Best: O(n) time | O(1) space
5     // Average: O(n^2) time | O(1) space
6     // Worst: O(n^2) time | O(1) space
7     func bubbleSort(array: inout [Int]) -> [Int] {
8         var isSorted = false
9         var counter = 0
10
11         while !isSorted {
12             isSorted = true
13             for i in 0 ..< array.count - 1 - counter {
14                 if array[i] > array[i + 1] {
15                     swapHelper(i, i + 1, &array)
16                     isSorted = false
17                 }
18             }
19
20             counter = counter + 1
21         }
22         return array
23     }
24
25     func swapHelper(_ firstIndex: Int, _ secondIndex: Int, _ array: inout [Int]) {
26         let temp = array[secondIndex]
27         array[secondIndex] = array[firstIndex]
28         array[firstIndex] = temp
29     }
30 }
31
```

Solution 1Solution 2Solution 3

```
1 class Program {
2     func bubbleSort(array: inout [Int]) -> [Int] {
3         // Write your code here.
4         return []
5     }
6 }
7
```

Custom OutputRaw Output

Submit Code

Run or submit code when you're ready.

Our Tests Your Tests Quick Test **BETA**

```
1 // ...
2 // ...
3 // ...
```