

Our Solution(s)	Run Code	Your Solutions	Run Code
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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     public static int[] bubbleSort(int[] array) {
8         if (array.length == 0) {
9             return new int[] {};
10        }
11        boolean isSorted = false;
12        int counter = 0;
13        while (!isSorted) {
14            isSorted = true;
15            for (int i = 0; i < array.length - 1 - counter; i++) {
16                if (array[i] > array[i + 1]) {
17                    swap(i, i + 1, array);
18                    isSorted = false;
19                }
20            }
21            counter++;
22        }
23        return array;
24    }
25
26    public static void swap(int i, int j, int[] array) {
27        int temp = array[j];
28        array[j] = array[i];
29        array[i] = temp;
30    }
31 }
32
```

Solution 1 Solution 2 Solution 3

```
1 class Program {
2     public static int[] bubbleSort(int[] array) {
3         // Write your code here.
4         return null;
5     }
6 }
7
```

Run or submit code when you're ready.

Our Tests

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