Our Solution(s)

Run Code

Solution 1

```csharp
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public class Program {
  // Best: O(n) time | O(1) space
  // Average: O(n^2) time | O(1) space
  // Worst: O(n^2) time | O(1) space
  public static int[] BubbleSort(int[] array) {
    if (array.Length == 0) {
      return new int[] {};
    }
    bool isSorted = false;
    int counter = 0;
    while (!isSorted) {
      isSorted = true;
      for (int i = 0; i < array.Length - 1 - counter; i++) {
        if (array[i] > array[i + 1]) {
          swap(i, i + 1, array);
          isSorted = false;
        }
      }
      counter++;
    }
    return array;
  }

  public static void swap(int i, int j, int[] array) {
    int temp = array[j];
    array[j] = array[i];
    array[i] = temp;
  }
}
```

Your Solutions

Run Code

Solution 1   Solution 2   Solution 3

```csharp
public class Program {
  public static int[] BubbleSort(int[] array) {
    // Write your code here.
    return null;
  }
}
```

Our Tests

Custom Output

Submit Code

Run or submit code when you're ready.