

```
1 // sample of arrays to sort
2 var arrayRandom = [9, 2, 5, 6, 4, 3, 7, 10, 1, 8];
3 var arrayOrdered = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
4 var arrayReversed = [10, 9, 8, 7, 6, 5, 4, 3, 2, 1];
5
6 function insertionSort(array) {
7     var countOuter = 0;
8     var countInner = 0;
9     var countSwap = 0;
10
11     for(var i = 0; i < array.length; i++) {
12         countOuter++;
13         var temp = array[i];
14         var j = i - 1;
15         while (j >= 0 && array[j] > temp) {
16             countInner++;
17             countSwap++;
18             array[j + 1] = array[j];
19             j--;
20         }
21         array[j + 1] = temp;
22     }
23
24     console.log('outer:', countOuter, 'inner:', countInner, 'swap:', countSwap);
25     return array;
26 }
27
28 insertionSort(arrayRandom.slice()); // => outer: 10 inner: 21 swap: 21
29 insertionSort(arrayOrdered.slice()); // => outer: 10 inner: 0 swap: 0
30 insertionSort(arrayReversed.slice()); // => outer: 10 inner: 45 swap: 45
31
```