```
 1  // array to sort
 2  const array = [9, 2, 5, 6, 4, 3, 7, 10, 1, 8];
 3
 4  // be careful: this is a very basic implementation which is nice to understand the
    deep principle of bubble sort (going through all comparisons) but it can be greatly
    improved for performances
 5  function bubbleSortBasic(array) {
 6    for(let i = 0; i < array.length; i++) {
 7      for(let j = 1; j < array.length; j++) {
 8        if(array[j - 1] > array[j]) {
 9          [array[j - 1], array[j]] = [array[j], array[j - 1]];
10        }
11      }
12    }
13    return array;
14  }
15
16  console.log(bubbleSortBasic(array.slice())); // => [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ]
17
18  // correct implementation: this is the usual implementation of the bubble sort
    algorithm. Some loops execution are avoided if not they are not needed
19  function bubbleSort(array) {
20    let swapped;
21    do {
22      swapped = false;
23      for(let i = 0; i < array.length; i++) {
24        if(array[i] && array[i + 1] && array[i] > array[i + 1]) {
25          [array[i], array[i + 1]] = [array[i + 1], array[i]];
26          swapped = true;
27        }
28      }
29    } while(swapped);
30    return array;
31  }
32
33  console.log(bubbleSort(array.slice())); // => [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ]
34
```