```
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 // gaps
 7 \text{ var gaps} = [701, 301, 132, 57, 23, 10, 4, 1];
9 function shellsort(array) {
    var countOuter = 0;
10
    var countInner = 0;
11
12
    var countSwap = 0;
13
     for(var g = 0; g < gaps.length; g++) {</pre>
14
15
       var gap = gaps[g];
16
       for(var i = gap; i < array.length; i++) {</pre>
17
         countOuter++;
         var temp = array[i];
18
19
         for(var j = i; j \ge gap && array[j - gap] > temp; <math>j -= gap) {
20
           countInner++;
21
           countSwap++;
22
           array[j] = array[j - gap];
23
         array[j] = temp;
24
25
26
     console.log('outer:', countOuter, 'inner:', countInner, 'swap:', countSwap);
27
28
     return array;
29 }
30
31 shellsort(arrayRandom.slice()); // => outer: 15 inner: 11 swap: 11
32 shellsort(arrayOrdered.slice()); // => outer: 15 inner: 0 swap: 0
33 shellsort(arrayReversed.slice()); // => outer: 15 inner: 13 swap: 13
34
```