```
1 // sample of arrays to sort
 2 const arrayRandom = [9, 2, 5, 6, 4, 3, 7, 10, 1, 8];
 3 const arrayOrdered = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
 4 const arrayReversed = [10, 9, 8, 7, 6, 5, 4, 3, 2, 1];
 5
 6 // gaps
 7 const gaps = [701, 301, 132, 57, 23, 10, 4, 1];
9 function shellsort(array) {
    let countOuter = 0;
10
     let countInner = 0;
11
12
    let countSwap = 0;
13
    for(let g = 0; g < gaps.length; g++) {</pre>
14
15
       const gap = gaps[g];
       for(let i = gap; i < array.length; i++) {</pre>
16
17
         countOuter++;
         const temp = array[i];
18
19
         let last = i;
         for(let j = i; j \ge gap && array[j - gap] > temp; <math>j -= gap) {
20
21
           countInner++;
           countSwap++;
22
23
           array[j] = array[j - gap];
24
           last -= gap;
25
         }
26
         array[last] = temp;
27
28
     console.log('outer:', countOuter, 'inner:', countInner, 'swap:', countSwap);
29
     return array;
31 }
32
33 shellsort(arrayRandom.slice()); // => outer: 15 inner: 11 swap: 11
34 shellsort(arrayOrdered.slice()); // => outer: 15 inner: 0 swap: 0
35 shellsort(arrayReversed.slice()); // => outer: 15 inner: 13 swap: 13
36
```