

```
1 // array to sort
2 const array = [9, 2, 5, 6, 4, 3, 7, 10, 1, 8];
3
4 // gaps
5 const gaps = [701, 301, 132, 57, 23, 10, 4, 1];
6
7 function shellsort(array) {
8   for(let g = 0; g < gaps.length; g++) {
9     const gap = gaps[g];
10    for(let i = gap; i < array.length; i++) {
11      const temp = array[i];
12      let last = i;
13      for(let j = i; j >= gap && array[j - gap] > temp; j -= gap) {
14        array[j] = array[j - gap];
15        last -= gap;
16      }
17      array[last] = temp;
18    }
19  }
20  return array;
21 }
22
23 console.log(shellsort(array)); // => [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ]
24
```