

```
1  package sortAlgorithm;
2
3  class ShellSort {
4
5      public static void shellSort(int[] nums) {
6
7          if (nums == null || nums.length <= 1) {
8              return;
9          }
10
11         for (int step = nums.length / 2; step > 0; step /= 2) {
12
13             for (int i = step; i < nums.length; i += step) {
14                 int temp = nums[i];
15                 int j = i - step;
16                 while (j >= 0 && nums[j] > temp) {
17                     nums[j + step] = nums[j];
18                     j -= step;
19                 }
20                 nums[j + step] = temp;
21             }
22         }
23     }
24
25
26     public static void main(String[] args) {
27
28         int[] nums = {2, 7, 4, 2, 3, 9, -1, 9, 18};
29
30         shellSort(nums);
31
32         System.out.println("haha");
33     }
34 }
```