```
1
    package sortAlgorithm;
2
3
    import java.util.ArrayList;
4
    import java.util.Arrays;
5
 6
    class BucketSort {
 7
8
    public static void bucketSort(int[] nums, int maxValue, int minValue, int
        bucketNumber) {
9
     ArrayList<ArrayList<Integer>> bucketsContainer = new ArrayList<>();
10
     for (int i = 0; i < bucketNumber; i++) {</pre>
11
12
                ArrayList<Integer> newBucket = new ArrayList<>();
13
               bucketsContainer.add(newBucket);
     . . . . . . . . . }
14
15
     for (int i = 0; i < nums.length; <math>i++) {
16
17
               int index = (nums[i] - minValue) / 10;
18
19
     bucketsContainer.get(index).add(nums[i]);
    20
21
22
     for (int i = 0; i < bucketsContainer.size(); i++) {</pre>
23
               int[] tempNums = new int[bucketsContainer.get(i).size()];
       for (int j = 0; j < bucketsContainer.get(i).size(); j++) {</pre>
24
25
                    tempNums[j] = bucketsContainer.get(i).get(j);
26
27
     QuickSort.quickSort(tempNums);
28
    System.out.println(Arrays.toString(tempNums));
    29
30
31
    System.out.println();
32
    . . . . . }
33
34
35
    public static void main(String[] args) {
36
37
     score = \{63, 90, 72, 85, 96, 80, 70, 61, 77\};
38
39
     ------bucketSort(score, 100, 60, 4); --//4个桶 60-70, 70-80, 80-90, 90-100
40
41
     . . . . . .
         System.out.println();
42
43
    }
```