```
1
     package array;
     /* 数组 nums[0, mid - 1] 和 nums[mid, n-1]是各自有序(升序)的, 现在要使得 nums[0,
 3
     n-1]整体有序 */
4
5
     import java.util.Arrays;
6
7
     class MergeTwoSortedPartsInArray {
8
9
         public static void mergeTwoSortedPartsInArray(int[] nums, int mid) {
10
11
             if (nums == null || nums.length <= 1) {</pre>
12
                 return;
13
             }
14
             int leftIndex = 0, rightIndex = mid;
15
16
             int leftEndIndex = mid;
17
18
             while (leftIndex < leftEndIndex && rightIndex < nums.length) {</pre>
19
20
                 if (nums[rightIndex] < nums[leftIndex]) {</pre>
21
22
                     reverseArray(nums, leftIndex, rightIndex - 1);
23
                     reverseArray(nums, leftIndex, rightIndex);
24
                     rightIndex++;
25
                     leftIndex++;
26
                     leftEndIndex++;
27
28
                 } else {
29
                      leftIndex++;
30
                 }
31
             }
32
         }
33
         private static void reverseArray(int[] nums, int startIndex, int endIndex) {
34
35
36
             while (startIndex < endIndex) {</pre>
37
38
                 int temp = nums[startIndex];
39
                 nums[startIndex] = nums[endIndex];
40
                 nums[endIndex] = temp;
41
42
                 startIndex++;
43
                 endIndex--;
44
             }
45
46
         }
47
48
49
         public static void main(String[] args) {
50
51
             int[] nums = {1, 5, 6, 7, 9, 2, 4, 8, 10, 13, 14};
52
             int mid = 5;
53
54
             mergeTwoSortedPartsInArray(nums, mid);
55
56
             System.out.println(Arrays.toString(nums));
57
         }
58
     }
```