

```
1  package array;
2
3  class RotateArray {
4
5      public static void rotateArray(int[] nums, int k) {
6
7          if (nums == null || nums.length <= 1) {
8              return;
9          }
10
11          int numsLength = nums.length;
12          k = k % numsLength;
13
14
15          reverseArray(nums, 0, k);
16          reverseArray(nums, k, numsLength - k);
17          reverseArray(nums, 0, numsLength);
18      }
19
20
21      private static void reverseArray(int[] nums, int startIndex, int reverseLength) {
22
23          int endIndex = startIndex + reverseLength - 1;
24          while (startIndex < endIndex) {
25
26              int temp = nums[startIndex];
27              nums[startIndex] = nums[endIndex];
28              nums[endIndex] = temp;
29
30              startIndex++;
31              endIndex--;
32          }
33      }
34
35
36      public static void main(String[] args) {
37
38          int[] nums = {1, 2, 3, 4, 5, 6, 7, 8};
39          rotateArray(nums, 6);
40          rotateArray(nums, 2);
41          rotateArray(nums, 13);
42
43          System.out.println("haha");
44      }
45  }
```