189. Rotate Array

K = 0

K=1

K=2

K=3

K= 4

K=5

k=6

Medium ₺ 16794 🖓 1832 ♡ Add to List 🗅 Share

Given an integer array nums , rotate the array to the right by k steps, where k is non-negative.

Example 1:

2

2

3 5 k=7 1234567 k=

$$k=8$$
 $k=k\%$

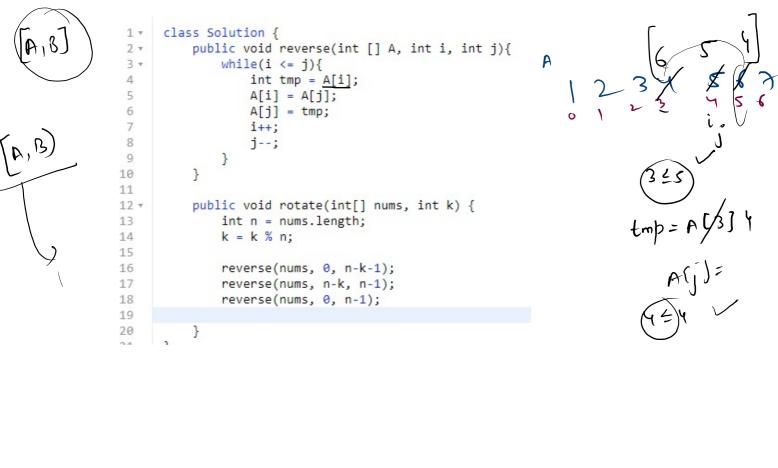
/K=K% n

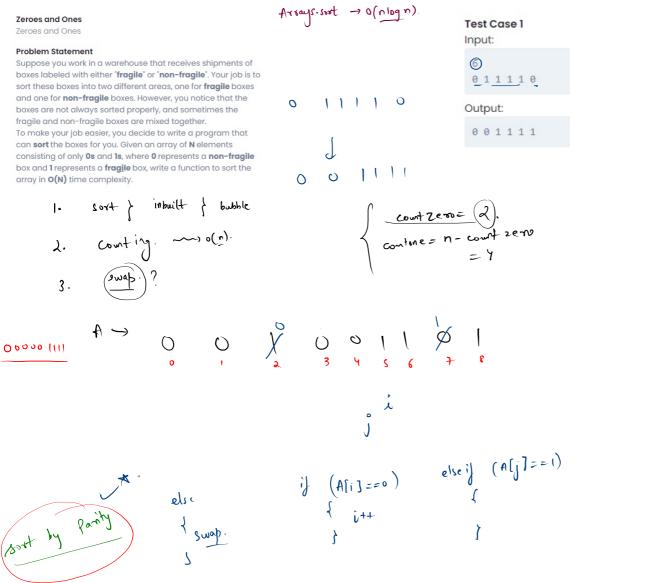
$$K=3$$
.

 $K=3$

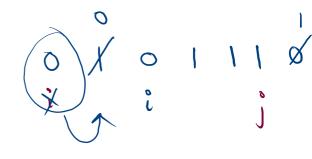
K=3

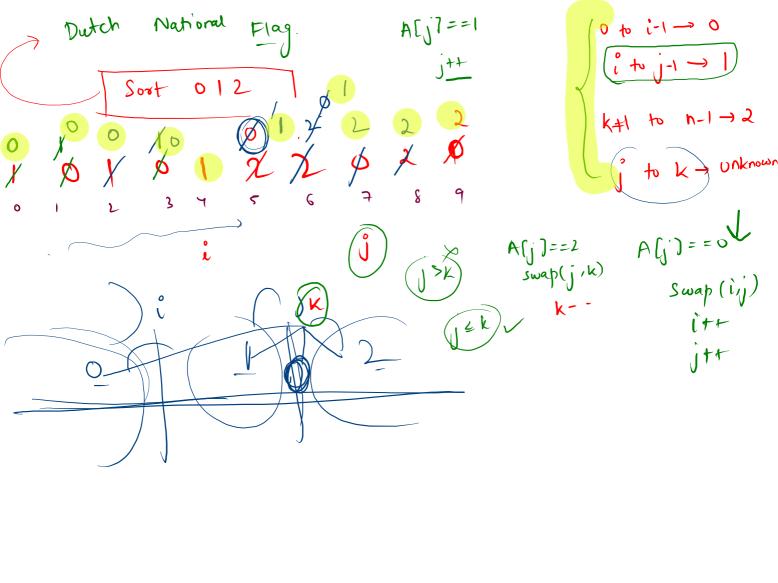
n-K





```
import java.util.*;
2
     public class Main {
3
         public static void main(String[] args) {
             Scanner scn = new Scanner(System.in);
4
 5
             int n = scn.nextInt();
 6
             int [] A = new int[n];
7
             for(int i = 0; i < n; i++){
8
                 A[i] = scn.nextInt();
9
10
             int i = 0;
             int j = n-1;
11
12
             while( i <= j){
                 if(A[i] == 0){
13
14
                     i++;
15
                 else if(A[j] == 1){
16
17
                     j--;
18
19
                 else{
20
                     int tmp = A[i];
21
                     A[i] = A[j];
22
                     A[j] = tmp;
23
                     i++;
24
                     j--;
25
26
27
28
             for( i = 0; i < n; i++){
                 System.out.print(A[i] + " ");
29
30
31
32
33
```





```
import java.util.*;
1
2
    public class Main {
        public static void swap(int [] A, int i, int j){
3
            int tmp = A[i];
4
5
            A[i] = A[j];
            A[j] = tmp;
6
7
        public static void main(String[] args) {
8
9
            Scanner scn = new Scanner(System.in);
            int n = scn.nextInt();
            int [] A = new int[n];
1
            for(int i = 0; i < n; i++){
                A[i] = scn.nextInt();
13
             int i = 0;
            int j = 0;
17
            int k € n-1;
            while
19
                    swap(A,i,j);
                     i++;
                    j++;
                 else if(A[j] == 1){
25
                    j++;
27
                 else{
28
                    swap(A,j, k);
                     k--;
31
            for(int p = 0; p < n; p++){
                 System.out.print(A[p] + " ");
33
oncolo.
```

