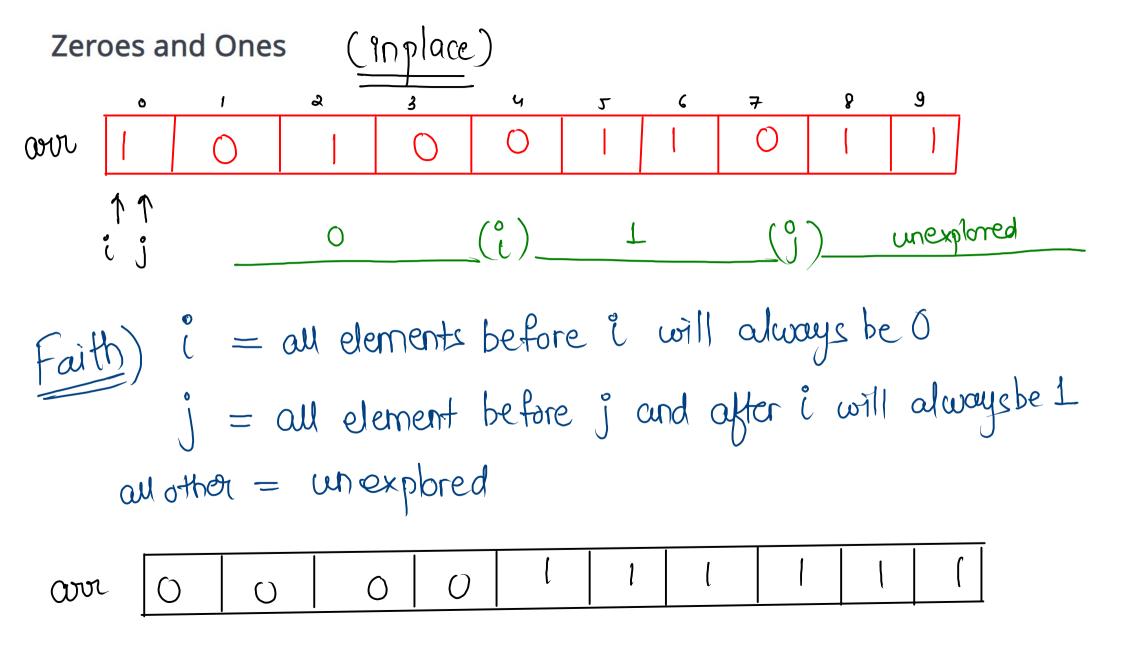
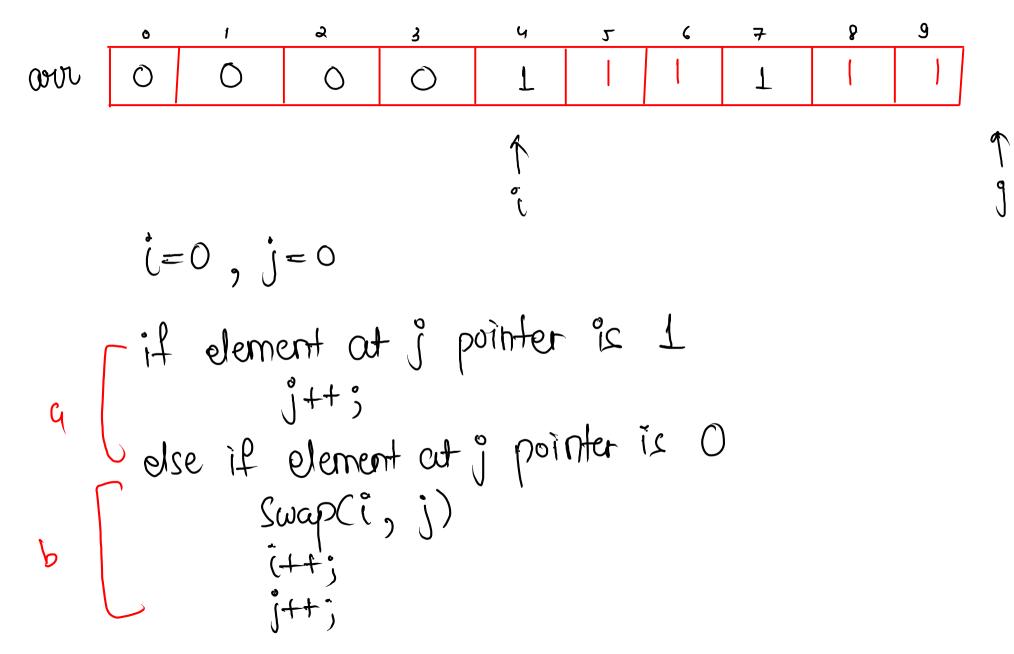
```
Interleaving x and y Elements
    public static int[] interleaving(int[] arr, int size) {
       int i = 0;
       int j = size;
       int[] ans = new int[2 * size];
       int k = 0;
       _while (k < ans.length) { 套
          ans[k] = arr[i];
                                    iterations = (
         ans[k] = arr[j];
       return ans;
```

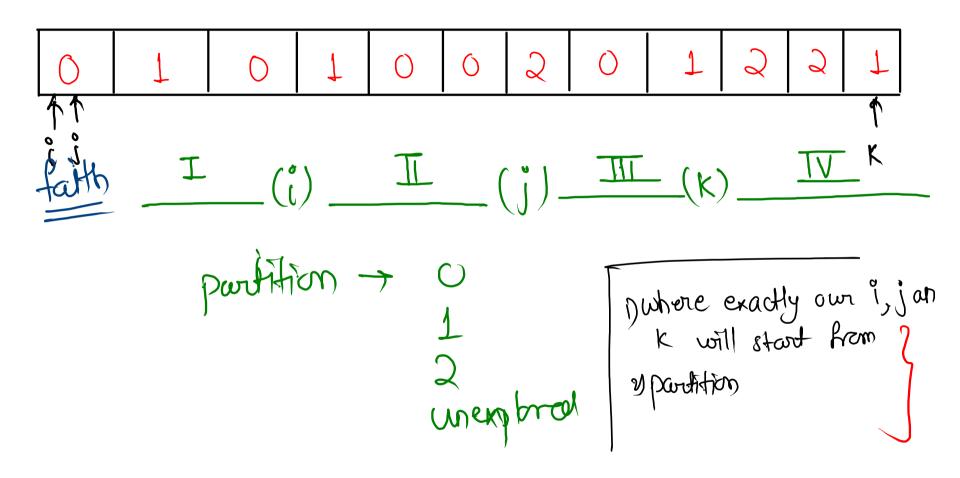


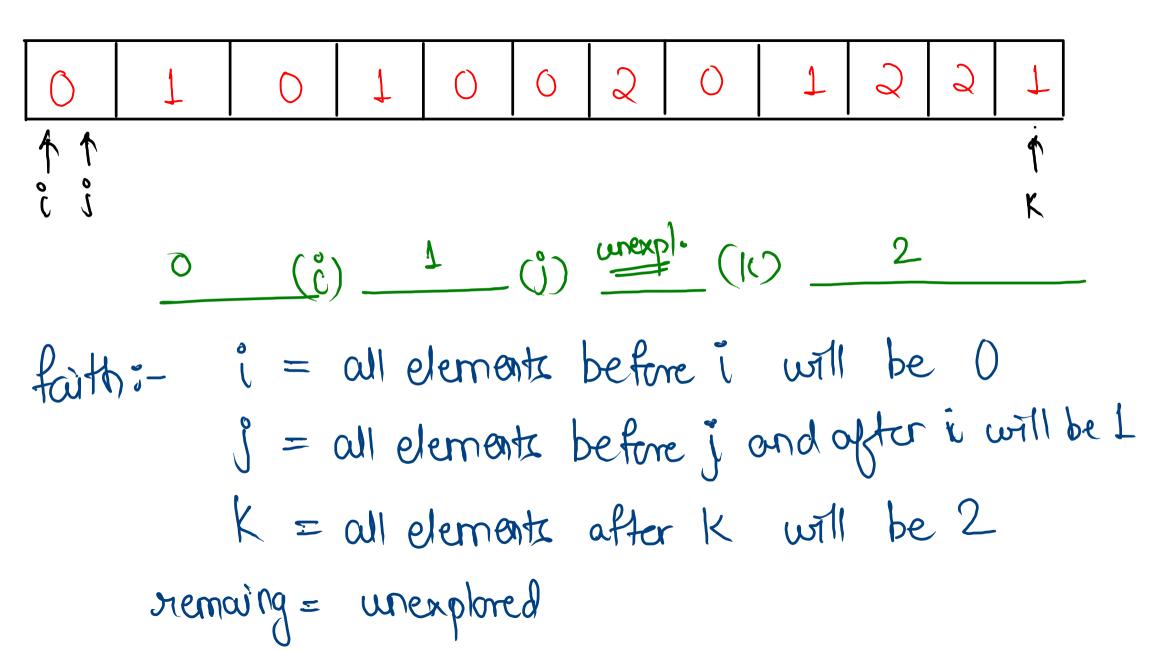


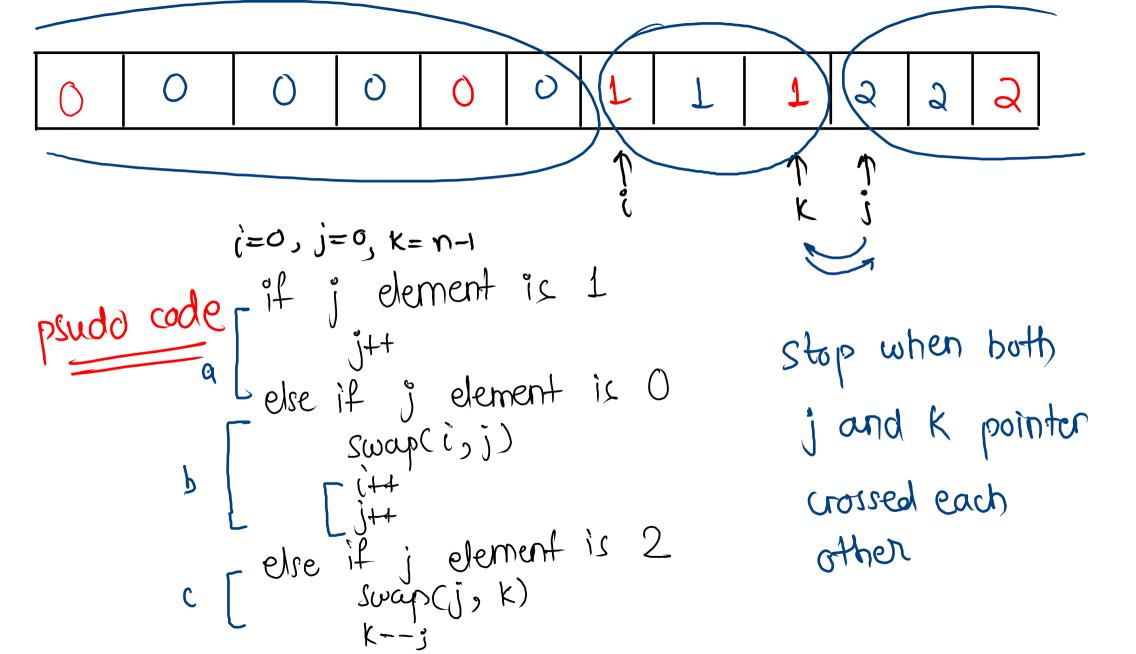
```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }
    int[] ans = swap01(arr, n);
    for (int k = 0; k < ans.length; k++) {
        System.out.print(ans[k] + " ");
public static int[] swap01(int[] arr, int n) {
    int i = 0;
    int i = 0:
  \sim while (j < n) {
      rif (arr[j] == 1) {
        } else {
            swap(arr, i, j);
            j++;
    return arr;
public static void swap(int[] arr, int i, int j) {
    int temp = arr[i];
    arr[i] = arr[j];
    arr[j] = temp;
```

```
T_{\circ}C = O(N), S_{\circ}C = O(1)
```

Sort 0 1 2







```
public static int[] swap012(int[] arr, int n) {
    int i = 0;
    int j = 0;
    int k = n - 1;
    while (j \le k)
        if (arr[j] == 1) {
            j++;
        } else if (arr[j] == 0) {
            swap(arr, i, j);
            i++;
            j++;
        } else {
            swap(arr, j, k);
            k--;
    return arr;
```

Rotate Right

2 3 4 5 6