https://course.acciojob.com/idle?question=80705e86-341b-4e37-92e 5-6c828e51c5be

- EASY
- Max Score: 30 Points

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0-1 Sorting

You are given an array arr of length n containing only 0's and 1's. Your task is to segregate all the 0's to the left of the array and all the 1's to the right of the array.

Input Format

The first line of input contains an integer n, size of the array.

The next line contains \mathbf{n} space separated integers (0 or 1) denoting the elements of the array.

Output Format

Print n space seperated integers denoting the segregated array.

Example 1

```
Input

15
0 0 0 1 1 1 1 0 1 1 0 0 1 0 1

Output

0 0 0 0 0 0 1 1 1 1 1 1 1 1 1

Explanation

We have arr = [0 0 0 1 1 1 1 0 1 1 0 0 1 0 1]

Moving all the 0's in the beginning and all the 1's at the end.

The final segregated array is [0 0 0 0 0 0 1 1 1 1 1 1 1]
```

Example 2

```
Input
6
1 0 1 0 1 1

Output
0 0 1 1 1 1
```

Explanation

Constraints

```
1 <= n <= 10^6
0 <= arr[i] <= 1
```

Topic Tags

- 2-Pointers
- Sorting
- Arrays

My code

```
public static void main(String[] args) throws Throwable {
    Scanner sc = new Scanner(System.in);
    int n = sc.nextInt();
    int arr[] = new int[n];
    for(int i=0;i<n;++i){
        arr[i] = sc.nextInt();
    }
    int[] ans=Sorting01(n,arr);
    for(int i=0;i<n;++i){
        System.out.print(ans[i] + " ");
    }
}</pre>
```