Given the array [i] for each [i] find out how many numbers in the array are smaller than it. That is, for each [i] you have to count the number of valid [i]'s such that [i]! [i] and [i] [i

Return the answer in an array.

## Example 1:

```
Input: nums = [8,1,2,2,3]
Output: [4,0,1,1,3]
Explanation:
For nums[0]=8 there exist four smaller numbers than it (1, 2, 2 and 3).
For nums[1]=1 does not exist any smaller number than it.
For nums[2]=2 there exist one smaller number than it (1).
For nums[3]=2 there exist one smaller number than it (1).
For nums[4]=3 there exist three smaller numbers than it (1, 2 and 2).
```

## Example 2:

```
Input: nums = [6,5,4,8]
Output: [2,1,0,3]
```

## Example 3:

```
Input: nums = [7,7,7,7]
Output: [0,0,0,0]
```

## **Constraints:**

- 2 <= nums.length <= 500
- 0 <= nums[i] <= 100