You are given two integer arrays nums1 and nums2, sorted in non-decreasing order, and two integers in and nums and nums2, sorted in non-decreasing order, and two integers in and numse wheel or spacebar while dragging, or use the hand tool representing the number of elements in nums1 and nums2 respectively.

Merge nums1 and nums2 into a single array sorted in non-decreasing order.

The final sorted array should not be returned by the function, but instead be stored inside the array nums1. To accommodate this, nums1 has a length of m + n, where the first m elements denote the elements that should be merged, and the last $\, n \,$ elements are set to $\, 0 \,$ and should be ignored. $\, nums2 \,$ has a length of $\, n \,$.

Example 1:

Input: nums1 = [1,2,3,0,0,0], m = 3, nums2 = [2,5,6], n = 3

Output: [1,2,2,3,5,6]

Explanation: The arrays we are merging are [1,2,3] and [2,5,6].

The result of the merge is [1,2,2,3,5,6] with the underlined elements coming from

nums1.

$$\rho 1 = nums1[0]$$

 $\rho 2 = nums2[0]$

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$$nums2 = [2, 5, 6]$$

1 from n1

2 from n1

2 from n2

3 n1

5 n2

6 n2

34=2

result = [7

// pointers num 1 and num 2 $\rho 1$, $\rho 2 = 0.0$

for i in range (m +n): if n1[p1] <= n2[p2]result.append(n1[p1]) ++1م

result.append(n2[p2]) ρ2++

// outside the for loop //Copy result back into nums1 nums1[:m+n] = result

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