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Description

Solution

You are given two integer arrays nums1 and nums2, sorted in **non-decreasing order**, and two integers m and n, representing the number of elements in nums1 and nums2 respectively.

□ Discuss (999+)

Submissions

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 $[\underline{1},\underline{2},2,\underline{3},5,6]$ with the underlined elements coming from nums1.

Example 2:

Input: nums1 = [1], m = 1, nums2 = [], n = 0
Output: [1]
Explanation: The arrays we are merging are [1] and [].
The result of the merge is [1].

Example 3:

```
Input: nums1 = [0], m = 0, nums2 = [1], n = 1
Output: [1]
Explanation: The arrays we are merging are [] and [1].
The result of the merge is [1].
Note that because m = 0, there are no elements in nums1. The 0 is only there to ensure the merge result can fit in nums1.
```

```
class Solution {
1 ▼
2 ▼
          public void merge(int[] nums1, int m, int[] nums2, int n) {
 3
 4
              int[] tempArray1 = new int[m];
 5
              int[] tempArray2 = new int[n];
 7
              for(int i = 0; i < m; i++)</pre>
8
                  tempArray1[i] = nums1[i];
 9
10
              for(int i = 0; i < n; i++)</pre>
11
                  tempArray2[i] = nums2[i];
12
13
              int i = 0;
14
              int j = 0;
15
              int k = 0;
16
17 ▼
              while(i < m && j < n){
18
                  if(tempArray1[i] < tempArray2[j])</pre>
19
                       nums1[k++] = tempArray1[i++];
20
                  else
                       nums1[k++] = tempArray2[j++];
21
22
              }
23
24
              while(i < m)</pre>
25
                  nums1[k++] = tempArray1[i++];
26
27
              while(j < n)</pre>
28
                  nums1[k++] = tempArray2[j++];
29
30
```

C----

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i Java

Autocomplete