Merge Sorted Array

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

Process: Start with pointers:

p1 = m - 1 = 2 (last element of nums1) p2 = n - 1 = 2 (last element of nums2) p = m + n - 1 = 5 (last position in nums1).

p = m + n - 1 = 5 (last position in nums1). Compare nums1[p1] = 3 and nums2[p2] = 6:

Compare nums1[p1] = 3 and nums2[p2] = 5:

Compare nums1[p1] = 3 and nums2[p2] = 2: Compare nums1[p1] = 2 and nums2[p2] = 2:

nums2 is exhausted (p2 = -1), so the process stops.

Output: final result: [1, 2, 2, 3, 5, 6].