Merge Sorted Array

Try to solve the Merge Sorted Array problem.

We'll cover the following
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Try it yourself

Statement

Given two sorted integer arrays, nums1 and nums2, and the number of data elements in each array, m and n, implement a function that merges the second array into the first one. You have to modify nums1 in place.

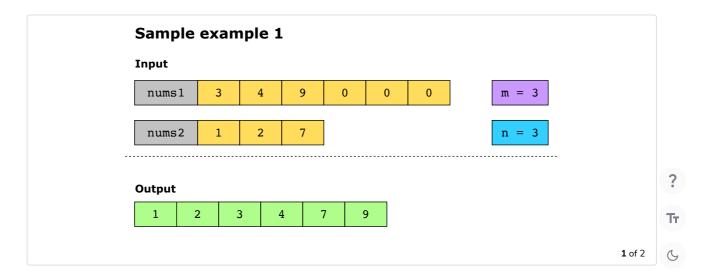
Note: Assume that nums1 has a size equal to m+n, meaning it has enough space to hold additional elements from nums2.

Constraints:

- nums1.length = m + n
- nums2.length = n
- $0 \le m, n \le 200$
- $1 \le m + n \le 200$
- $\bullet \ -10^3 \leq {\tt nums1[i]}, {\tt nums2[j]} \leq 10^3$

Example

The inputs will be two integer arrays and two integers representing the number of data elements in each array.





The zeroes at the end of nums1 represent uninitialized integers. This additional space will be used to merge it with nums2.

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

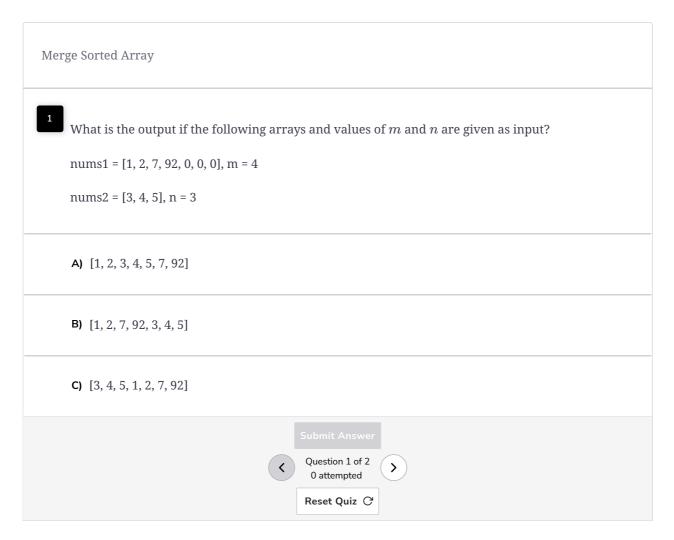
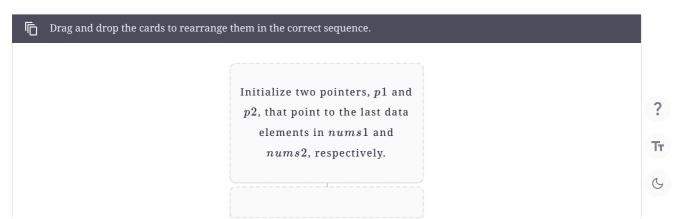
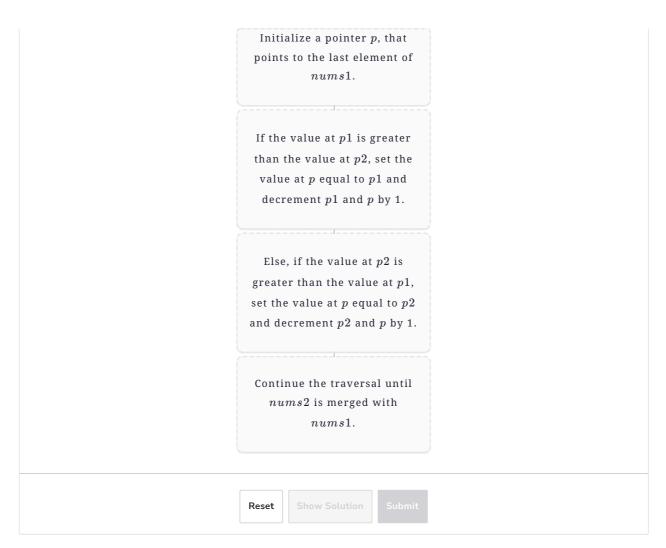


Figure it out!

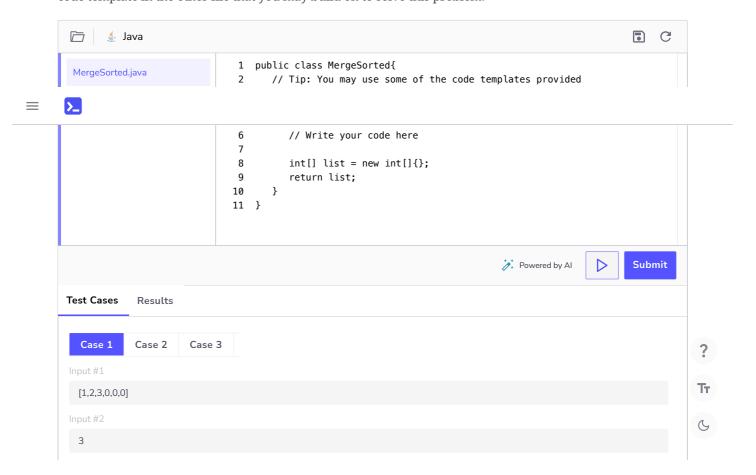
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

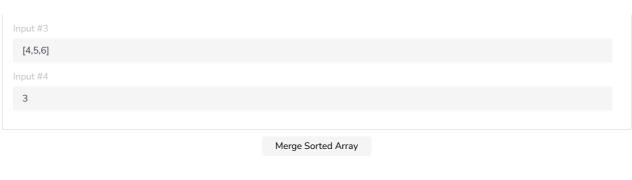


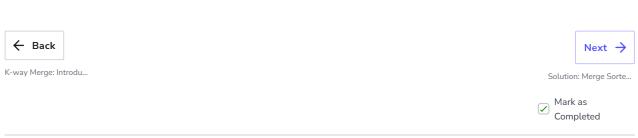


Try it yourself

Implement your solution in MergeSorted.java in the following coding playground. We have provided a useful code template in the other file that you may build on to solve this problem.







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