Given two sorted arrays nums1 and nums2 of size m and n respectively, return **the median** of the two sorted arrays.

The overall run time complexity should be O(log (m+n)).

**Example 1:**

Input: nums1 = [1,3], nums2 = [2]  
Output: 2.00000  
Explanation: merged array = [1,2,3] and median is 2.

**Example 2:**

Input: nums1 = [1,2], nums2 = [3,4]  
Output: 2.50000  
Explanation: merged array = [1,2,3,4] and median is (2 + 3) / 2 = 2.5.

**Constraints:**

* nums1.length == m
* nums2.length == n
* 0 <= m <= 1000
* 0 <= n <= 1000
* 1 <= m + n <= 2000
* -106 <= nums1[i], nums2[i] <= 106