

4. Median of Two Sorted Arrays

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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`
- $0 \leq m \leq 1000$
- $0 \leq n \leq 1000$
- $1 \leq m + n \leq 2000$
- $-10^6 \leq \text{nums1}[i], \text{nums2}[i] \leq 10^6$

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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