

## 4. Median of Two Sorted Arrays

Hard

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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  $(2 + 3) / 2 = 2.5$ .

### Example 3:

**Input:** `nums1 = [0,0], nums2 = [0,0]`  
**Output:** `0.00000`

### Example 4:

**Input:** `nums1 = [], nums2 = [1]`  
**Output:** `1.00000`

### Example 5:

**Input:** `nums1 = [2], nums2 = []`  
**Output:** `2.00000`

### Constraints:

- `nums1.length == m`
- `nums2.length == n`
- `0 <= m <= 1000`
- `0 <= n <= 1000`
- `1 <= m + n <= 2000`

1 ↕

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Test...

You

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