

## 4. Median of Two Sorted Arrays ★

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There are two sorted arrays **nums1** and **nums2** of size m and n respectively.

Find the median of the two sorted arrays. The overall run time complexity should be  $O(\log(m+n))$ .

### Example 1:

```
nums1 = [1, 3]
nums2 = [2]
```

The median is 2.0

[Notes](#)

### Example 2:

```
nums1 = [1, 2]
nums2 = [3, 4]
```

The median is  $(2 + 3) / 2 = 2.5$

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```
1 public class Solution {
2     public double findMedianSortedArrays(int[] nums1, int[] nums2) {
3
4     }
5 }
```

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