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## 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  $O(\log(m+n))$ .

You may assume **nums1** and **nums2** cannot be both empty.

### Example 1:

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

The median is 2.0
```

### Example 2:

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

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

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```
1 class Solution(object):
2     def findMedianSortedArrays(self, nums1, nums2):
3         """
4         :type nums1: List[int]
5         :type nums2: List[int]
```

```
6      :rtype: float
7      ""
8
```

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