



链滴

# 【leetcode】4. Median of Two Sorted Arrays

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原文链接: <https://ld246.com/article/1504616713417>

来源网站: 链滴

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

Question:

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

**Example 2:**

nums1 = [1, 2]

nums2 = [3, 4]

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

Answer:

```
class Solution {
public:
    double findMedianSortedArrays(vector<int>& nums1, vector<int>& nums2) {
        int i = 0, j = 0, t;
        double n = (nums1.size()+nums2.size())/2.0, s=0, ss=0;
        for(int k=0;k<=floor(n);k++)
        {
            if(j == nums2.size())
            {
                t = nums1[i];
                i++;
            }
            else if(i == nums1.size()||nums1[i]>nums2[j])
            {
                t = nums2[j];
                j++;
            }
            else
            {
                t = nums1[i];
                i++;
            }
            if(k>=ceil(n-1))
            {
                s+=t;
                ss+=1.0;
            }
        }
        return s/ss;
    }
};
```

Key:

```
else if(i == nums1.size()||nums1[i]>nums2[j])
```

注意||连接条件的顺序，前一条件为真，后面的条件就不判断，避免了数组越界。