



链滴

[每日 LeetCode] 747. Largest Number At Least Twice of Others

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来源网站: [链滴](#)

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Description:

In a given integer array `nums`, there is always exactly one largest element.

Find whether the largest element in the array is at least twice as much as every other number in the array.

If it is, return the **index** of the largest element, otherwise return -1.

Example 1:

Input: `nums = [3, 6, 1, 0]`

Output: 1

Explanation: 6 is the largest integer, and for every other number in the array x , 6 is more than twice as big as x . The index of value 6 is 1, so we return 1.

Example 2:

Input: `nums = [1, 2, 3, 4]`

Output: -1

Explanation: 4 isn't at least as big as twice the value of 3, so we return -1.

Note:

1. `nums` will have a length in the range `[1, 50]`.
2. Every `nums[i]` will be an integer in the range `[0, 99]`.

思路：本题题意是找出数组中最大元素，该最大元素是比其他元素大两倍的元素，若存在返回其数组标，不存在则返回-1。想法比较简单，首先对数组排序，比较最大的两个数是否满足大于两倍的关系最后返回数组下标。

C++代码

```
class Solution {
public:
    int dominantIndex(vector<int>& nums) {
        int n=nums.size();
        if(n==1)
            return 0;
        vector<int>A(nums.begin(),nums.end());
        sort(A.rbegin(),A.rend());
        if(A[0]<2*A[1])
            return -1;
        for(int i=0;i<n;i++)
        {
            if(nums[i]==A[0])
                return i;
        }
        return -1;
    }
}
```

```
};
```

运行时间: 4ms

运行内存: 8.5M