



链滴

[每日 LeetCode] 1. Two Sum

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原文链接: <https://ld246.com/article/1553090797931>

来源网站: 链滴

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

Description:

Given an array of integers, return **indices** of the two numbers such that they add up to a specific target.

You may assume that each input would have exactly one solution, and you may not use the same element twice.

Example:

Given `nums = [2, 7, 11, 15]`, `target = 9`,

Because `nums[0] + nums[1] = 2 + 7 = 9`,
return `[0, 1]`.

思路：本题要求寻找和为target的两个元素下标。考虑使用map结构，将数组保存至unordered_map中，存入一个元素则判断一次，直到所有的元素判断完。

C++代码

```
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        unordered_map<int,int> dic;
        vector<int> result;
        for(int i = 0; i < nums.size(); ++i) {
            int numberToFind = target - nums[i];
            if (dic.find(numberToFind) != dic.end()) {
                result.push_back(dic[numberToFind]);
                result.push_back(i);
                return result;
            }
            dic[nums[i]] = i;
        }
        return result;
    }
};
```

运行时间： 12ms

运行内存： 9.5M