

# 第一周练习

张睿恒 2024302182001

## T1 LeetCode1 简单

```
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        int n = nums.size();
        for(int i=0;i<n;++i){
            for(int j=i+1;j<n;++j){
                if(nums[i] + nums[j] == target) return {i,j};
            }
        }
        return {};
    }
};
```

Accepted

63 / 63 testcases  
passed



Solution

I submitted at Oct 11, 2025 18:37

⌚ Runtime

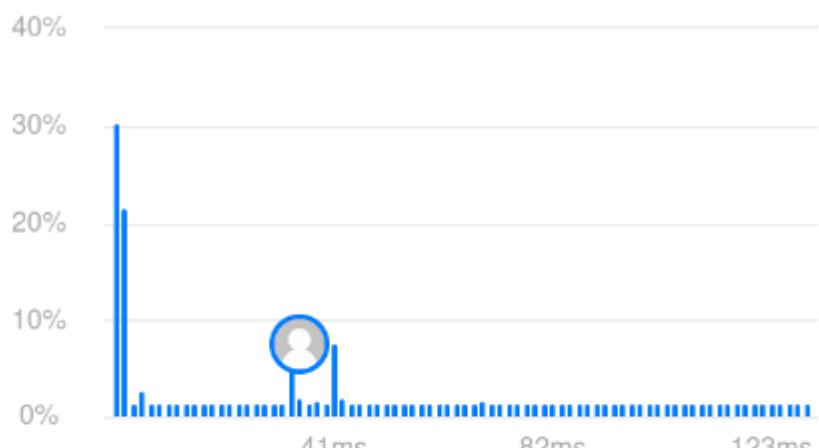


**35 ms** | Beats **39.21%**

👉 Analyze Complexity

🐏 Memory

**14.14 MB** | Beats **64.15%** 🌟



41ms 82ms 123ms

Code | C++

## T2 LeetCode27 简单

```
class Solution {
public:
    int removeElement(vector<int>& nums, int val) {
        int i = 0;

        for (const int num : nums)
            if (num != val)
                nums[i++] = num;

        return i;
    }
};
```

Accepted

116 / 116 testcases  
passed

1th submitted at Oct 11, 2025 19:03



Solution

⌚ Runtime

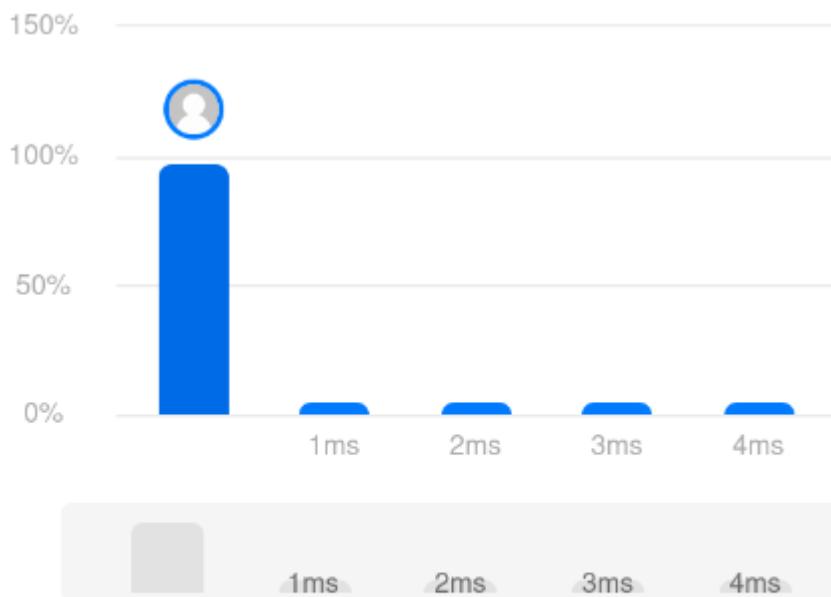
ⓘ

**0 ms** | Beats **100.00%** 🏆

↗️ Analyze Complexity

🐏 Memory

**11.74 MB** | Beats **46.86%**



Code | C++

## T3 LeetCode206 中等

```
/**  
 * Definition for singly-linked list.  
 * struct ListNode {  
 *     int val;  
 *     ListNode *next;  
 *     ListNode() : val(0), next(nullptr) {}  
 *     ListNode(int x) : val(x), next(nullptr) {}  
 *     ListNode(int x, ListNode *next) : val(x), next(next) {}  
 * };  
 */  
class Solution {  
public:  
    ListNode* reverseList(ListNode* head) {  
        if(head == NULL or head->next == NULL) return head;  
        ListNode* newHead = reverseList(head->next);  
        head->next->next = head;  
        head->next = NULL;  
        return newHead;  
    }  
};
```

Accepted

28 / 28 testcases  
passed

1th submitted at Oct 11, 2025 19:19



Solution

⌚ Runtime

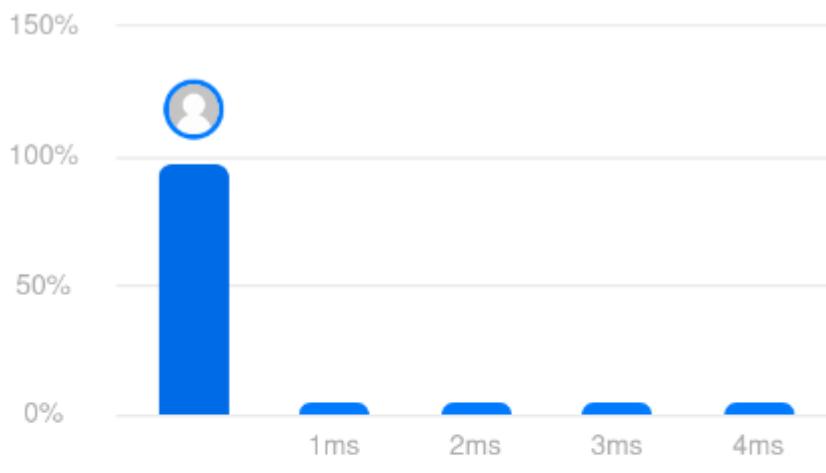
ⓘ

**0 ms** | Beats **100.00%** 🏆

⭐ Analyze Complexity

Ⓜ️ Memory

**13.62 MB** | Beats **9.63%**



Code | C++

## T5 LeetCode21 中等

```
/**  
 * Definition for singly-linked list.  
 * struct ListNode {  
 *     int val;  
 *     ListNode *next;  
 *     ListNode() : val(0), next(nullptr) {}  
 *     ListNode(int x) : val(x), next(nullptr) {}  
 *     ListNode(int x, ListNode *next) : val(x), next(next) {}  
 * };  
 */  
class Solution {  
public:  
    ListNode* mergeTwoLists(ListNode* list1, ListNode* list2) {  
        if(list1 == NULL or list2 == NULL) return list1 ? list1 : list2;  
        if(list1->val > list2->val) swap(list1, list2);  
        list1->next = mergeTwoLists(list1->next, list2);  
        return list1;  
    }  
};
```

Accepted

208 / 208 testcases  
passed

1th submitted at Oct 11, 2025 19:27



Solution

⌚ Runtime

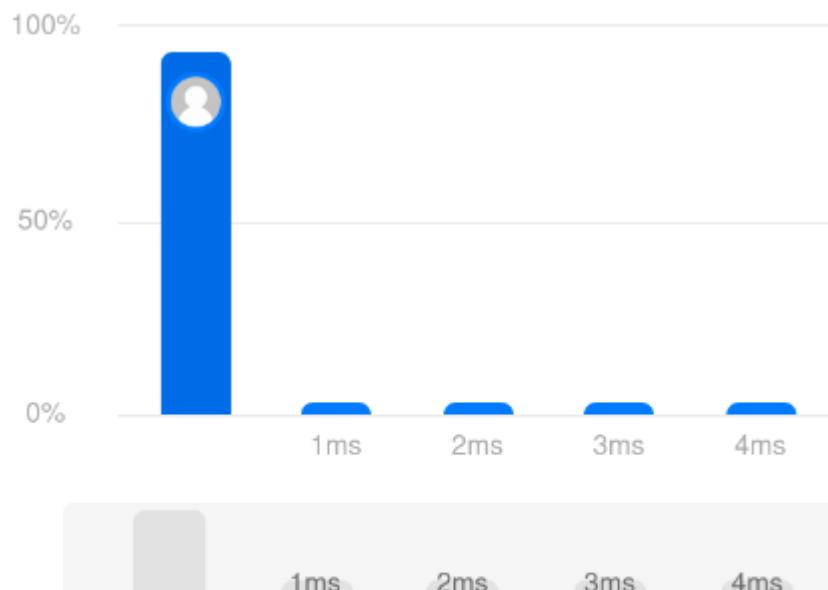


0 ms | Beats 100.00% 🏆

⭐ Analyze Complexity

🐏 Memory

19.38 MB | Beats 86.73% 🏆



Code | C++

## T7 LeetCode42 困难

```
class Solution {
public:
    int trap(vector<int>& height) {
        const int n = height.size();
        int ans = 0;
        vector<int> l(n);
        vector<int> r(n);

        l[0] = height[0];
        r[n-1] = height[n-1];
        for (int i = 1; i < n; ++i)
            l[i] = max(height[i], l[i - 1]);

        for (int i = n - 2; i >= 0; --i)
            r[i] = max(height[i], r[i + 1]);

        for (int i = 0; i < n; ++i)
            ans += min(l[i], r[i]) - height[i];

        return ans;
    }
};
```

Accepted

324 / 324 testcases  
passed

1th submitted at Oct 11, 2025 20:04



Solution

⌚ Runtime

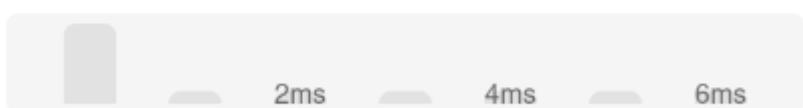
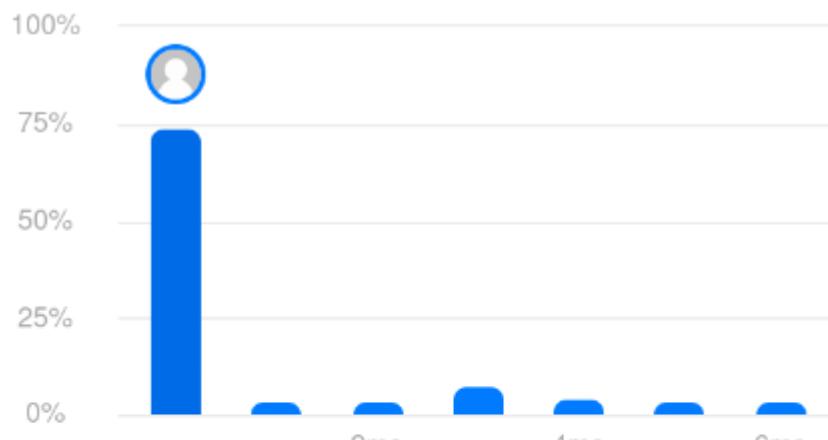


**0 ms** | Beats **100.00%** 🏆

⭐ Analyze Complexity

🐏 Memory

**27.10 MB** | Beats **39.62%**



Code | C++

## T8 LeetCode322 困难

```
class Solution {
public:
    int coinChange(vector<int>& coins, int amount) {
        vector<int> dp(amount + 1, amount + 1);
        dp[0] = 0;

        for (int i=1;i<=amount;++i)
            for (const int coin : coins)
                if (coin <= i) dp[i] = min(dp[i],dp[i-coin]+1);

        if(dp[amount] == amount+1) return -1;
        return dp[amount];
    }
};
```

**Accepted** 189 / 189 testcases passed

1th submitted at Oct 11, 2025 20:33



Solution

⌚ Runtime

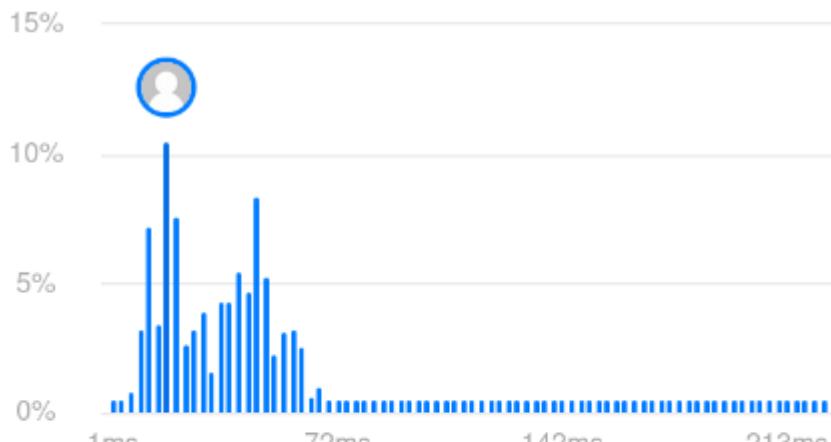


**18 ms** | Beats **84.52%** 🏆

↗️ Analyze Complexity

🐏 Memory

**17.96 MB** | Beats **72.96%** 🏆



Code | C++