4. 两数之和

地址: の两数之和

题目:

• English:

```
1. Two Sum
难度 简单 凸 11511 ☆ □ 🛕 ♀ 🗉
Given an array of integers \,{\rm nums}\, and an integer \,{\rm target}\, , return indices of
the two numbers such that they add up to target
You may assume that each input would have exactly one solution, and you
may not use the same element twice
You can return the answer in any order.
Example 1:
  Input: nums = [2,7,11,15], target = 9
  Output: [0,1]
  Output: Because nums[0] + nums[1] == 9, we return [0,
Example 2:
  Input: nums = [3,2,4], target = 6
Output: [1,2]
Example 3:
  Input: nums = [3,3], target = 6
  Output: [0,1]
Constraints:
   • 2 <= nums.length <= 10^4

• -10^9 <= nums[i] <= 10^9

• -10^9 <= target <= 10^9

• Only one valid answer exists.
```

• 中文:

1. 两数之和

思路1:暴力枚举,两层循环

分析:

★ 两层循环, 枚举不同下标,将前一个数与后一个数相加, 和等于目标数, 返回这两个数值。

代码

```
// Java
 class Solution {
  public int[] twoSum(int[] nums, int target) {
    int[] a = new int[2];
    int numsSize = nums.length;
     for (int i = 0; i < numsSize - 1; i++) {</pre>
      for (int j = i + 1; j < numsSize; j++) {</pre>
        if (nums[i] + nums[j] == target) {
          a[0] = i;
          a[1] = j;
          return a;
        }
      }
    }
    return new int[0];
   }
```

复杂度分析:

• 时间复杂度: O(n^2)

• 空间复杂度: O(1)