0001 Two Sum

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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1

检索每一个，与其后面的数意义相加，得到比较

O(n ^ 2)

思路2

排序

检索每一个数num，得到target - num

二分搜索

O(nlogn)

思路三

思路三

建立字典，以nums【i】为key，i为value

这样找target-num时O(1)

总O(n)