

1. Two Sum

Easy

👍 37781

💬 1206

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Given an array of integers `nums` and an integer `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]`

Explanation: Because `nums[0] + nums[1] == 9`, we return `[0, 1]`.

Example 2:

Input: `nums = [3,2,4]`, `target = 6`

Output: `[1,2]`

Example 3:

Input: `nums = [3,3]`, `target = 6`

Output: `[0,1]`

Code

```
1 ▾ class Solution:
2 ▾     def twoSum(self, nums: List[int], target: int) -> List[int]:
3 ▾         for i, j in enumerate(nums):
4 ▾             if target - j in nums[i + 1:]:
5 ▾                 return [i, nums[i + 1:].index(target - j) + 1 + i]
```

The purpose of the code is to receive a list of numbers and a target number, and find the indices of two numbers from the list which adds up to the target number. The challenging part of the code was to find the exact index of the two numbers because it needed effective use of the method `index()`.