1. Two Sum

Easy   👍16521   👎597   ♡Add to List   ⎘Share

Given an array of integers `nums` and and integer `target` , return *the 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, 1]
```

Example 2:

```
Input: nums = [3,2,4], target = 6
Output: [1,2]
```

Example 3:

```
Input: nums = [3,3], target = 6
Output: [0,1]
```

Constraints:

- `1 <= nums.length <= 10`^{5}
- `-10`^{9} `<= nums[i] <= 10`^{9}
- `-10`^{9} `<= target <= 10`^{9}
- **Only one valid answer exists.**