# 1. Two Sum <sup>☑</sup>

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]
```

#### **Constraints:**

- 2 <= nums.length <=  $10^4$
- $-10^9 <= nums[i] <= 10^9$
- $-10^9 <= target <= 10^9$
- Only one valid answer exists.