

## 1. Two Sum

Easy
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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]`

**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:

- $2 \leq \text{nums.length} \leq 10^3$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^9 \leq \text{target} \leq 10^9$
- Only one valid answer exists.**

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```

1 class Solution:
2     def twoSum(self, nums: List[int], target: int) -> List[int]:
3         """
4         :param nums: List[int]
5         :param target: int
6         :return: List[int]
7         """
8

```