# **Two Sum**

https://leetcode.com/problems/two-sum/submissions/1508244215/

# **Two Sum**

# **Easy**

```
Given an array of integers nums and an integer target, return the indices i and j such that nums[i] + nums[j] == target and i != j.
```

You may assume that *every* input has exactly one pair of indices **i** and **j** that satisfy the condition.

Return the answer with the smaller index first.

# Example 1:

```
Input:
nums = [3,4,5,6], target = 7
Output: [0,1]
```

# Copy

Explanation: nums[0] + nums[1] == 7, so we return [0, 1].

# Example 2:

```
Input: nums = [4,5,6], target = 10
Output: [0,2]
```

### Copy

### Example 3:

```
Input: nums = [5,5], target = 10
```

Two Sum 1

```
Output: [0,1]
```

# Copy

### **Constraints:**

```
class Solution:
    def twoSum(self, nums: List[int], target: int) -> List[int]
    if nums == []:
        return []

    stack = []

    for i in range(len(nums)):
        complement = target - nums[i]
        if complement in stack:
            return [nums.index(complement), i]
        else:
            stack.append(nums[i])
```

If i ever attempt this again, maybe use a hash map for an efficient look up

Two Sum 2