

DAY 1

1. Two Sum

Easy Topics Companies Hint

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:

- $2 \leq \text{nums.length} \leq 10^4$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^9 \leq \text{target} \leq 10^9$
- Only one valid answer exists.

CODE:

```
class Solution {  
    public int[] twoSum(int[] nums, int target) {  
        for (int i = 0; i < nums.length; i++) {  
            for (int j = i + 1; j < nums.length; j++) {  
                if (nums[i] + nums[j] == target) {  
                    return new int[] { i, j };  
                }  
            }  
        }  
        return new int[] {};  
    }  
}
```