

Description

Solution

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Submissions

### 1. Two Sum

Easy

38862

1246

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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]`

**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 <= 104`
- `-109 <= nums[i] <= 109`
- `-109 <= target <= 109`
- Only one valid answer exists.**

**Follow-up:** Can you come up with an algorithm that is less than `O(n2)` time complexity?

Java

Autocomplete

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{ }

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```
1 class Solution {
2     public int[] twoSum(int[] nums, int target) {
3
4         HashMap<Integer, Integer> numberMap = new HashMap<>();
5
6         for(int i = 0 ; i < nums.length; i++){
7             int difference = target - nums[i];
8
9             if(numberMap.containsKey(difference)){
10                 return new int[]{i, numberMap.get(difference)};
11             }
12
13             numberMap.put(nums[i], i);
14         }
15
16
17         return new int[2];
18     }
19 }
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

?

Your input

[2,7,11,15]

9

Output

[1,0]

Diff

Expected

[0,1]