

## 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]`

```
int* twoSum(int* nums, int numsSize, int target, int* returnSize) {
    *returnSize=2;
    for(int i=0;i<numsSize-1;i++){
        for(int j=i+1;j<numsSize;j++){
            if(nums[i]+nums[j]==target){
                nums[0]=i;
                nums[1]=j;
                return nums;
            }
        }
    }
    return NULL;
}
```

Output:

Input

`nums =`

`[2,7,11,15]`

`target =`

`9`

Output

`[0,1]`

Expected

`[0,1]`