

## 1. Two Sum

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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]`

```
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]`