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Leetcode Two sum problem solution

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In this **Leetcode Two sum problem solution**, we have given an array of integers nums and an integer target. we need to return the indices of the two numbers such that they add up to the target.

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Problem solution in Python.

```
Code
class Solution:
    def twoSum(self, nums: List[int], target: int) -> List[int]:
        x = len(nums)
        for i in range(x-1):
            for j in range(1,x):
                if i == j:
                    continue
                if nums[i] + nums[j] == target:
                    return [i,j]
```

Problem solution in Java.

```
Code
class Solution {
   public int[] twoSum(int[] nums, int target) {

    HashMap<Integer,Integer> map = new HashMap<>();
    int noToFind = 0;
    for(int i = 0; i < nums.length; i++)
    {
        if(map.containsKey(nums[i]))
        {
            int[] arr = {map.get(nums[i]), i};
            return arr;
        }
        noToFind = target - nums[i];
        map.put(noToFind, i);
    }
    return null;
}
}
```

Problem solution in C++.

```
Code
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        int n,i,j,ind,ind2;
                 ze();
        vector<int> ans;
        unordered_map<int, int> mp;
        for (int i = 0; i < n; i++)
        {
            if (mp.find(target - nums[i]) != mp.end())
            {
                ans.push_back(mp[target - nums[i]]);
                ans.push_back(i);
                return ans;
            }
            mp[nums[i]] = i;
        }

        return ans;
    }
};
```

Problem solution in C.

```
Code
int* twoSum(int* nums, int numsSize, int target, int* returnSize){
*returnSize=2;
int *arr=(int *)malloc((*returnSize)*sizeof(int));
for(int i=0;i<numsSize;i++){
for(int j=i+1;j<numsSize;j++){
```

```
if(nums[i]+nums[j]==target){
arr[0]=i;
```

```
break;
}
}
}
return arr;
}
```

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January 24, 2022 at 7:17 AM

Pretty sure there is a better way to do the two sum in C with a hash map

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