

#15 days of coding challenge  
#day 1  
TWO SUM  
#Leetcode 1

Solution:

```
class Solution {
public:
    vector<int> twoSum(vector<int>& nums, int target) {
        unordered_map<int, int> num_map;
        for (int i = 0; i < nums.size(); i++) {
            int a = target - nums[i];
            if (num_map.find(a) != num_map.end()) {
                return {num_map[a], i};
            }
            num_map[nums[i]] = i;
        }
        return {};
    }
};
```

Time Complexity: $O(n^2)$

Space Complexity: $O(1)$