## **JavaScript**

### Approach 1

#### Approach 2

```
/**
 * @param {number[]} nums
 * @param {number} target
 * @return {number[]}
 */
var twoSum = function(nums, target) {
    // let nums = [3,3]
    // let target = 6
    let [res, dic] =[[], {}]

    nums.forEach((ele, inx, arr) => {
        let rem = target - ele
```

```
dic[ele] = inx
    let ix = nums.findIndex((el, ix) => el == rem && ix != inx)
    if (ix != -1) res = [ix, inx]
})
return res
};
```

# **Python**

### Java

```
import java.util.HashMap;

class Solution {
    public int[] twoSum(int[] nums, int target) {
        HashMap<Integer, Integer> map = new HashMap<>(); // value -> index
        for (int i = 0; i < nums.length; i++) {
            int complement = target - nums[i];
            if (map.containsKey(complement)) {
                return new int[]{ map.get(complement), i };
            }
            map.put(nums[i], i);
        }
        return new int[]{}; // if no result is found
    }
}</pre>
```