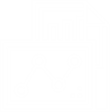
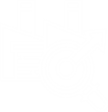
A picture containing purple, lilac, screenshot, violet

Description automatically generated­

LeetCode

SOLVING

PROBLEM

## Two Sum

**Problem Description:**

[**https://leetcode.com/problems/two-sum/**](https://leetcode.com/problems/two-sum/)

**Solution:**

class Solution {

  List<int> twoSum(List<int> *nums*, int *target*) {

*// create a Map to store the complement of each number*

    var numsMap = <int, int>{};

*// iterate through the list*

    for (var i = 0; i < *nums*.length; i++) {

*// calculate the complement of the current element*

      var complement = *target* - *nums*[i];

*// if the complement is already in the map, return the indices*

      if (numsMap.containsKey(complement)) {

        return [numsMap[complement]!, i];

      }

*// otherwise, add the current number and its index to the map*

      numsMap[*nums*[i]] = i;

    }

*// if no solution is found, return an empty list*

    return [];

  }

}

## Palindrome Number

**Problem Description:**

[**https://leetcode.com/problems/palindrome-number/**](https://leetcode.com/problems/palindrome-number/)

**Solution:**

class Solution {

  bool isPalindrome(int *x*) {

    return *x*.toString().split('').reversed.join() == *x*.toString();

  }

}

## Roman to Integer

**Problem Description:**

[**https://leetcode.com/problems/roman-to-integer/description/**](https://leetcode.com/problems/roman-to-integer/description/)

**Solution:**

class Solution {

  int romanToInt(String *s*) {

    Map<String, int> romanSymbols = {

      'I': 1,

      'V': 5,

      'X': 10,

      'L': 50,

      'C': 100,

      'D': 500,

      'M': 1000

    };

    int result = 0;

    for (int i = 0; i < *s*.length; i++) {

      if (i > 0 && romanSymbols[*s*[i]]! > romanSymbols[*s*[i - 1]]!) {

        result += romanSymbols[*s*[i]]! - 2 \* romanSymbols[*s*[i - 1]]!;

      } else {

        result += romanSymbols[*s*[i]]!;

      }

    }

    return result;

  }

}