

Two Sum

Problem Description:

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++) {</pre>
      // 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
тар
     numsMap[nums[i]] = i;
    // if no solution is found, return an empty list
    return [];
```

Palindrome Number

Problem Description:

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/

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;
```