LEET CODE PROGRAM

1. Nums=[2,4,5,7,11,13] target=9 output =[0,4]

```
class Solution {
    public int[] twoSum(int[] nums, int target) {
        for (int i = 0; i < nums.length; i++) {
            for (int j = i + 1; j < nums.length; j++) {
                if (nums[i] + nums[j] == target) {
                    return new int[] {i, j};
                }
            }
        }
        return new int[] {};
    }
}
```

2. Palindrome number

```
class Solution {
    public boolean isPalindrome(int x) {
        if (x < 0) {
            return false;
        }
        int y = x;
        int result = 0;
        while (y != 0) {
            int remainder = y % 10;
            result = result * 10 + remainder;
            y = y / 10;
        }
        return x == result;
    }
}
```

3. Strs=[“flower”, “flow”,”flight”] output=fl

```
class Solution {
```

```
    public String longestCommonPrefix(String[] strs) {
        if (strs == null || strs.length == 0) {
            return "";
        }
        String result = "";
        String firstStr = strs[0];
        for (int i = 0; i < firstStr.length(); ++i) {
            char c = firstStr.charAt(i);
            for (int j = 1; j < strs.length; ++j) {
                if (i >= strs[j].length() || strs[j].charAt(i) != c) {
                    return result;
                }
            }
            result += c;
        }
        return result;
    }
}
```

4. Remove Duplicate element

```
class Solution {
    public int removeDuplicates(int[] nums) {
        int index = 0;
        for (int i = 0; i < nums.length; ++i) {
            boolean isDuplicate = false;
            for (int j = 0; j < i; ++j) {
                if (nums[i] == nums[j]) {
                    isDuplicate = true;
                    break;
                }
            }
           if (!isDuplicate) {
                nums[index] = nums[i];
                index++;
            }
        }
        return index;
    }
}
```

5. Remove Element

```java
class Solution {
    public int removeElement(int[] nums, int val) {
        int index = 0;
        for (int i = 0; i < nums.length; i++) {
            if (nums[i] != val) {
                nums[index] = nums[i];
                index++;
            }
        }

        return index;
    }
}
```