

## HOMEWORK 2

Submission deadline: 27th of September, 20:00.

### QUESTION 1

Write a program that:

- asks the user to input a string of symbols;
- outputs the same string in the reverse order;
- if the two strings are the same, outputs "Palindrome!".

### QUESTION 2

Write a program that:

- asks the user to input an integer  $n$ ;
- outputs the set with all the numbers that are less than  $n$  and are a multiple of 2 and 3;
- outputs the set with all the numbers that are less than  $n$  and are neither a multiple of 2, nor a multiple of 3.

### QUESTION 3

Write a Python program that asks an integer number from the user and then constructs the following pattern.

```
1
22
333
4444
55555
666666
7777777
88888888
999999999
```

until it reaches the line of the number the user gave as input.