

## HOMEWORK 3

Submission deadline: 4th of October, 20:00.

### QUESTION 1

Write a program that:

- given the list

`['a',1,'1',5,5,(1,2), 'horse'],`

creates a dictionary containing all the pairs (*key* : *value*) in which *key* is an element of the list, and *value* is its type.

The program should then print such a dictionary.

### QUESTION 2

Write a program that:

- asks the user to input an integer  $n$ ;
- outputs the fibonacci series between 0 and  $n$  (0 and  $n$  included).

### QUESTION 3

Write a program that:

- asks the user to input a finite sequence of integers, each of them separated from the following one only by an empty space;
- eliminates all the duplicates in the list and orders the list from the highest to the lowest element;
- prints the correspondent tuple of integers.