VG101 — Introduction to Computer and Programming

Worksheet (chapter 7)
Manuel — UM-JI (Summer 2019)

Worksheet concept

- Simple exercises based on the slides
- Optional personal work
- No submission, no grading
- Only refer to websites in English

Ex. 1 — *Slide questions*
Ensure you can answer all the questions appearing in chapter 7.

Ex. 2 — *Arrays*
On a user input of 10 marks, calculate the mean, the median, the variance, and the standard deviation.
Each calculation should be done in a separate function and variables stored in an array.

Ex. 3 — *Matrix*

1. Create A, a 1000×1000 matrix composed of random integers.
2. Display all the elements of A in reverse order.
3. Read the elements of A by row.
4. Read the elements of A by column-major.
5. Compare the time taken in the two previous cases.

Ex. 4 — *Structres and pointers*
Using a pointer redo the work from slide 4.**??** in C.