VG101 — Introduction to Computer and Programming

Code quality requirements
Manuel — UM-JI (Summer 2018)

- Fill in this form before every assignment and project submission
- Submissions missing this form will be disregarded
- If any of the rules is broken a −25% penalty will be applied
- This form is not allowed during the exams

Rules common to all languages

Any code that is not compiling (C/C++) or returning an error (MATLAB) will not be graded.

- Source code quality:
    - √■ The code is indented
    - √■ The variable names are meaningful
    - √■ The code is split and organised into functions
    - √■ All the opened files have been closed

- Documentation quality:
    - √■ The code shows simple comments explaining the main steps
    - √■ A README file documenting the implementation choices is provided
    - √■ The README file is in pure text format
    - √■ The README file includes the names and student IDs of the all the contributors
    - √■ The README file explains what inputs are expected and provides an example
    - √■ The README file features a "Bugs section" where known issues that could not be solved on time are listed

C and C++ specific rules

- Variables:
    - ■ No global variable is used
    - ■ Any dynamically allocated memory has been released

- Functions and keywords not to use:
    ■ `goto` // not a good practice
    ■ `system` // not a good practice

    ■ `fflush(stdin)` // not in the C standard, meaningless and leading to unexpected behaviors

    □ `friend` // C++ only, not a good practice

- Code structure:
    ■ The `main` function is only used to dispatch the work to other functions
    ■ No function is coded in a header file
    ■ All the headers files feature "header guards"
    ■ Unless specified otherwise, the provided template is used to organise the code