# C++ Advanced – Exam 1 (18 Nov 2018)

Write C++ code for solving the tasks on the following pages.

Code should compile under the C++03 or the C++11 standard.

Submit your solutions here: <https://judge.softuni.bg/Contests/1315/CPlusPlus-Advanced-Exam-1-18-Nov-2018>

Any code files that are part of the task are provided under the folder **Skeleton**.

Please follow the exact instructions on uploading the solutions for each task.

# Task 2 – Max Reader

You are given the main() function for a program that reads integer arrays from the console, and then sorts and prints them in the order of their maximum elements (i.e. the first array is the one with the lowest max element, and the last is the one with the highest max element).

The code uses a Reader class for reading the arrays, each of which is entered on a single line on the console.

The code also uses a VectorMax class to store the arrays and their maximums, and to order them.

Your task is to study the provided code and implement all necessary classes and operations for the code to compile and accomplish the task described.

You should submit a single .zip file for this task, containing ONLY the files you created.

The Judge system has a copy of the other files and will compile them, along with your file, in the same directory.

### Restrictions

There will always be at least 1 integer in each array.

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The input will be small – this task is not about optimization.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3  8 1  -3 -1 -2  2 4 | -3 -1 -2  2 4  8 1 |
| 2  1071 13 1  42 1070 105 | 42 1070 105  1071 13 1 |