

C++ Fundamentals: Exam 2

The following tasks should be submitted to the SoftUni Judge system, which will be open starting **Sunday, 3 February 2019, 09:00** (in the morning) and will close on **Sunday, 3 February 2019, 15:00**.

For this exam, the code for each task should be a single C++ file, the contents of which you copy-paste into the Judge system.

Please be mindful of the strict input and output requirements for each task, as the tasks are evaluated automatically and not following the requirements strictly may result in your program's output being evaluated as incorrect, even if the program's logic is mostly correct.

You can use C++03 and C++11 features in your code.

Unless explicitly stated, any integer input fits into **int** and any floating-point input can be stored in **double**. On the Judge system, a C++ **int** is a **32-bit** signed integer and a C++ **double** is a **64-bit** IEEE754 floating point number.

NOTE: the tasks here are NOT ordered by difficulty level.

Task 3 - Sort the students

Write a program for a school, that sorts the students in function of Average Scores and Alphabetical order.

For the program you'll need:

- Number of students
- First Name
- Last Name
- Average scores
- STL Containers or array

Input

```
2 ( Number of students )
Anna (First Name)
Velichkova (Last Name)
3 (Average Scores ( vote ) )
Yanitsa (First Name)
Ivanova (Last Name)
5 (Average Scores ( vote ) )
```

Output

```
Yanitsa Ivanova 5 ( Below, filter by SCORE )
Anna Velichkova 3
```

```
Anna Velichkova 3 ( Below, Filter in Alphabetical order )
Yanitsa Ivanova 5
```

Example I/O

Example Input	Expected Output
2 Anna Velichkova 3 Yanitsa Ivanova 5	Yanitsa Ivanova 5 Anna Velichkova 3 Anna Velichkova 3 Yanitsa Ivanova 5
3 Anna Ivanova 3 Abba Ivanova 2 Ivan Draganov 5	Ivan Draganov 5 Anna Ivanova 3 Abba Ivanova 2 Abba Ivanova 2 Anna Ivanova 3 Ivan Draganov 5