## C++ Advanced Exam – 5 September 2020

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

Submit your solutions here: https://judge.softuni.bg/Contests/2555/CPlusPlus-Advanced-Exam-5-September-2020

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 – Discovery

Your task is to write a program which categorises scientific discoveries into certain field. You are given the main() function, which reads an integer value that represents a number of command lines. On each command line you receive information for a discovery.

You should implement a class which contains information about the four Scientific Fields and should be able to read from the provided input from the main() method and store the data.

The data should be stored in 4 different groups:

- Philosophy type 1
- Linguistics type 2
- Physics type 3
- **Chemistry** type 4

The class should implement a **print ()** method that **prints** the information, sorted by **year** (ascending order).

Your task is to study the code and write the functionality so that the code accomplishes 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

You should only submit files with .h and .cpp extensions (in a .zip archive). You should Not have folders in your .zip submission archieve.

## **Examples**

Input	Output
DiscoveryA 1965 scientist1 1 DiscoveryB 1999 scientist2 2 DiscoveryC 1899 scientist3 3 DiscoveryD 1965 scientist8 3 DiscoveryE 2000 scientist9 2 DiscoveryF 2019 scientist0 2	Physics: DiscoveryC 1899 - scientist3 DiscoveryD 1965 - scientist8 Linguistics: DiscoveryB 1999 - scientist2 DiscoveryE 2000 - scientist9 DiscoveryF 2019 - scientist0 Philosophy: DiscoveryA 1965 - scientist1 Chemistry:
5 TheoryOfRelativity 1934 Einstein 3 TheoryOfAutomata 1967 Chomsky 2 MolecularMass 1899 Kleid 4	Physics: TheoryOfRelativity 1934 - Einstein Linguistics: TheoryOfAutomata 1967 -











TheoryOfEgoAndSuperEgo 1923 Freud 1 TheoryOf TuringMachines 1975 Chomsky 2

Chomsky Philosophy: TheoryOf 0 - Freud TheoryOfEgoAndSuperEgo 1923 -Freud Chemistry: MolecularMass 1899 - Kleid









