Software Engineer (req79657)

DECATHLON

In this assignment your task is to write a Java program that would calculate the results of a Decathlon competition.

INPUT

A CSV file containing the raw results of the competition (see 'results.csv' file in attachment).

OUTPUT

An XML file which contains all the athletes in ascending order of their places. Athletes should have all the result data from the CSV file plus calculated total score and the place in the competition. In case of equal scores, athletes must share the places, e.g. 3-4 and 3-4 instead of 3 and 4.

The rules for the point calculation can be found here: http://en.wikipedia.org/wiki/Decathlon (see formulas at the end of the page).

TECHNICAL REQUIREMENTS

- JDK 1.8 should be used
- The program should not use any external libraries in addition to the Java standard API
- The tests can use external libraries (Junit, Mockito, etc)
- Your project should be build using Maven

WHAT WE WOULD LIKE TO SEE

- Code design should be simple yet flexible allowing easy modifications (for example, imagine some other input/output formats)
- Java is object-oriented programming language – use it!
- Clean code principles must be followed
- Code must be covered with unit-tests

DELIVERY

Please zip your code together with the project file. Keep in mind that we are going to run both your program and the tests.

There is no strict time limit, but try to finish the assignment in a reasonable amount of time.

LAST BUT NOT LEAST

If you have ANY questions, please do not hesitate to contact us (as we consider communication to be a very important part in software development).

Good luck!