Solve the problem in an object-oriented way in C++ according to the following:

*You have to use the template class library at* [*https://people.inf.elte.hu/treszka/oktatas/OOP/library.zip*](https://people.inf.elte.hu/treszka/oktatas/OOP/library.zip)*. You cannot modify the library.* ***There can be no loops or recursive function calls*** *in your code. You cannot inherit custom classes from Procedure. You can assume that the input file is correct. You only have to check that the file exists. You can open the file only once, and cannot use a variable whose size depends on the size of the file (for example, you cannot read everything into a vector and then process it). If the problem does not make sense for an empty file handle that case separately. You cannot use global variables.*

Data of basketball games of the 2020 season are recorded in a text file. In case a player had at least one shot attempt, each of his attempts in a certain game is stored in one line of the input file. Possible sample lines of the input file:

James Lebron Washington 2 50 4 2 3 10 10 3 38 25 7 0

James Lebron Philadelphia 5 12 3 2 28 57 8 3

Each line of the file contains the name of a player (neither the given name nor the family name contain spaces), the location of the game (a single word without spaces), then the data of shot attempts follow. The data of one shot attempt consists of the time (minute and second, both are integer numbers) of the attempt, the distance from the basket, and the score of the shot. The shot is worth 1, 2 or 3 points; 0 points in case of missed shot. In the first line of the sample, there are two successful and one missed shot; whereas in the second line of the sample both the shots are successful.

The data in each line are separated by spaces. The file is sorted by the family name of players.

***For grade 3:*** Determine a player who had at least two successful shots (worth of 1, 2 or 3 points) in any of his games. Print the name of the player along with the location of the game and also the number of his successful shots in the given game.

***For grade 5:*** Determine the player who obtained the most number of successful shots in total in the 2020 season. Print the total number of successful shots the player obtained as well.

You can use the official codes of the course and your own codes, too, but you must not enlist other persons’ help. You don't have to do the solution for grade 3 if you have already solved for grade 5. It is recommended to start with the problem for grade 3. Only those programs are accepted that can be compiled with g++ and that give good results for the test data. You have to upload your solution into Canvas before 17:30. Upload a zipped complete CodeBlocks project without the obj and bin folders. The filename should be your neptun code and the level you have solved (3 or 5). Please, do not upload your program if it does not meet the requirements.

You can ask questions from your lab teacher during the test trough Teams or email.