Passover work 2020 – Computer science

You need to make a class named "Student".

Class characteristic's

Student name – studentName

Class number – classNumber

Array of grades – grades type int

Array of subjects – subjects type string

Number of grades - nubmerOfGrades - type int

The connection between the arrays is as follows: every cell inside the array "subjects" as a corresponding grade in a cell with the same index inside the array "grades" (every subject can appear multiple times.

For example:

subjects

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| math | physics | C.S | math | C.S | Torah |  |  |  |  |

grades

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 93 | 89 | 92 | 82 | 84 | 89 |  |  |  |  |

Functions inside the class (only public functions, if you need private ones, add them):

* Constructor that gets the students name and class number (only one constructor, no empty constructor)
* GetStudentName(), GetStudentClassNumber(), SetStudentName(string
* name),SetClassNumber(int num)
* Bool AddGrade(string gsubject,int grade)
* Bool RemoveGrade(string subject) – removes only the last subject's grade
* GetAverage() – returns overall average
* GetAverage(string subject) – return the specific subject's grade
* String GetBestSubject()- return the subject's name with the highest grade

After you finish building the class you also need to complete the following tasks:

* Create three different students
* Insert 3 grades for each student
* Print everyone's average
* Delete one grade from one of the students
* Check who is the student with the highest average, print his name, his average and the grade with the highest average

Link to the solution:

https://drive.google.com/file/d/1bb0r7TjLKkUGowTv9q6QdeBiX3dgeiMe/view?usp=sharing