**04. Advanced C++ Class Members– Homework Exercises**

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

Code should compile under the C++03 or the C++11 standard.

Submit your solutions here: <https://judge.softuni.bg/Contests/1183/04-Advanced-CPlusPlus-Class-Members-Homework> (select “Compete” when prompted)

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 – SumOfVectors**

You are given program in a Main**.cpp** file that read:

* How many couples of data you have
* Elements data 1
* Elements data 2

The number of couples is an integer, the datas are strings.

With the couples in the data vectors, you have to create a new vector with concatenation of the previous 2 vectors data.

Write a function that does the concatenation

Your task is to study the code in **Main.cpp** and implement the **SumOfVectors** function in **SumOfVectors.h** (which is **#include**-d by **Main.cpp**), so that **Main.cpp** compiles successfully and accomplishes the task described. Your SumOfVectors**.h** file should resemble the following:

|  |
| --- |
| **SumOfVectors.h** |
| #ifndef SUMOFVECTORS\_H  #define SUMOFVECTORS\_H  // Place your code here  #endif // !SUMOFVECTORS\_H |

You should submit a single **.zip** file for this task, containing ONLY the **SumOfVectors.h** file. The Judge system has a copy of the other files and will compile them, along with your file, in the same directory.

**Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2  Ivan  Dragan  22  23 | Ivan 22  Dragan 23 |
| 1  Polya  Pavlova | Polya Pavlova |