# 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 3 – Operators

You are given code for a program which reads a specified number of lines from the console, and then formats them in the following way:

* It prepends two lines of characters before the lines from the input
* It then places each of the original lines prefixing it with its number (starting from 1) followed by ". "
* It then appends a line of characters at the end

The program does all this (you don’t have to do input, output, or determining of line numbers), but it uses operators which aren’t defined in the C++ language.

Your task is to study what the code in OperatorsMain.cpp and implement the necessary operators in Operators.h (which is #include-d by OperatorsMain.cpp), so that OperatorsMain.cpp compiles successfully and accomplishes the task described. Your Operators.h file should resemble the following:

|  |
| --- |
| **Operators.h** |
| #ifndef OPERATORS\_H  #define OPERATORS\_H  #include <ostream>  #include <vector>  #include <string>  #include <sstream>  // Place your code here  #endif // !OPERATORS\_H |

You should submit a single .zip file for this task, containing ONLY the Operators.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  hello  c++ operators | Formatted Lines  ----------------  1. hello (5)  2. c++ operators (13)  ---------------- |