

C++ Fundamentals – Exam (17 November 2019)

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

Code should compile under the C++11 standard.

Submit your solutions here:

<https://judge.softuni.bg/Contests/1751/CPlusPlus-Fundamentals-Exam-17-November-2019>

Only source code will be accepted as solution for each task.

Task 3 – Algebra Helper

Little Ibrahim has some trouble with his math homework. He tries to learn some equation by heart. Help him out!

Ibrahim remembers the equations in his head by memorizing their **result**. He has good visual memory and utilizes it. He arranges the equations in his head in **descending** order by their **result**.

If two or more equations have the same result he keeps their order from the input. The first one remains first, second one – second, etc ...

An equation will only be constructed from a 2 integers and an operating between the 2 integers.

NOTE: only the following 5 operations should be supported:

- + (sum)
- - (subtraction)
- * (multiplication)
- / (integer division)
- % (integer modulo)

NOTE 2: there will be no brackets. Nothing fancy – just 2 integers and an operation between them.

Input

First a single integers (N) indicating how many equations will follow (each on a different line).

Next read (N) **lines** of equations. Each equation contains a number, after that an operations and then another number – always in that order.

Restrictions

Time limit: 250ms (0.25s)

Memory limit: 16 MB

Examples

Input	Output
3 1 / 2 1 * 2 1 + 2	1 + 2 1 * 2 1 / 2
4	5 + 3

$2 * 0$ $6 \% 4$ $5 + 3$ $2 - 6$	$6 \% 4$ $2 * 0$ $2 - 6$
4 $2 * 13$ $6 \% 3$ $20 + 6$ $2 - 2$	$2 * 13$ $20 + 6$ $6 \% 3$ $2 - 2$