# C++ Fundamentals – Regular Exam – 10 December 2023

Please submit your source code to all below-described problem in Judge.

## 2. Calculations

Your task is to read a line of **N elements (separated by space)** and perform **calculations**, based on this line.

Each element in the line can be:

- **integer number (which will fit long)**
- **one of the chars +, *, -  or /, which indicate the operation you must do**

Your calculator has two variables: "`current value`" and "`previous value`" which both start from 0. If an operation comes, you use it to perform the calculation: previous value operation current value. If a number comes, first your previous value becomes the current value, and then the new number becomes your new current value.

When the input operations end, you should print the two values: `current value` and `previous value`.

**Hints:**

- The **/** operation is <u>integer division</u>, so the result must be integer.
- You should **not handle** the **'Division by zero'** case, as the input will be correct all the time.

## Examples

| Input | Output | Explanation |
|---|---|---|
| 5 3 + 10 * 2 – | 78 2 | Start: `current value` = 0, `previous value` = 0<br>After 5: `current value` = 5, `previous value` = 0<br>After 3: `current value` = 3, `previous value` = 5<br>After +: `current value` = 8 (5 + 3), `previous value` = 3<br>After 10: `current value` = 10, `previous value` = 8<br>After *: `current value` = 80 (8 * 10), `previous value` = 10<br>After 2: `current value` = 2, `previous value` = 80<br>After –: `current value` = 78 (80 - 2), `previous value` = 2<br>Output: `current value` = 78, `previous value` = 2 |

| Input | Output | Explanation |
|---|---|---|
| 8 3 / | 2 3 | Start: `current value` = 0, `previous value` = 0<br>After 8: `current value` = 8, `previous value` = 0<br>After 4: `current value` = 3, `previous value` = 8<br>After /: `current value` = 2 (8 / 3), `previous value` = 3<br>Output: `current value` = 2, `previous value` = 3 |

| Input | Output | Explanation |
|---|---|---|
| 3 4 5 12 | 12 5 | Start: `current value` = 0, `previous value` = 0<br>After 3: `current value` = 3, `previous value` = 0 |

Follow us:

| | | |
|---|---|---|
| | | After 4: `current value` = 4, `previous value` = 3 |
| | | After 5: `current value` = 5, `previous value` = 4 |
| | | After 12: `current value` = 12, `previous value` = 5 |
| | | Output: `current value` = 12, `previous value` = 5 |
| | | Please note: it's OK to have just numbers without operations! |