Java Basics – Debugging

The goal of this lab is to practice **debugging techniques** in scenarios where a piece of code does not work correctly. Your task is to pinpoint the bug and fix it (without rewriting the entire code).

Problem 2. Instruction Set

Write an instruction compiler that receives an arbitrary number of **instructions**. The program should parse the instructions, execute them and print the result. The following instruction set should be supported:

- **INC <operand1>** - increments the operand by 1
- **DEC <operand1>** - decrements the operand by 1
- **ADD <operand1> <operand2>** - performs addition on the two operands
- **MLA <operand1> <operand2>** - performs multiplication on the two operands
- **END** – end of input

Output

The result of each instruction should be printed on a separate line on the console.

Constraints

- The operands will be valid integers in the range [−2147483648 … 2147483647].

Tests

Input	Program Output	Expected Output
INC 0 END	0 0 … *(infinite)*	1
ADD 1323134 421315521 END	422638655 422638655 … *(infinite)*	422638655
DEC 57314183	57314183 57314183 … *(infinite)*	57314182
MLA 252621 324532 END	379219748 379219748 … *(infinite)*	81983598372