# 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).

## 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 |