# Advanced C# – 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 [−2 147 483 648 … 2 147 483 647].

### Tests

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