

# Reverse Precedence

## Description

What if arithmetic operator precedence were reversed? Could you handle it?

Expressions within parentheses is still evaluated first, but + and - precede \* and /. Like with traditional arithmetic, "ties" (e.g. + and -) are evaluated in the order they appear.

## Input

A valid arithmetic expression, using positive decimal integers, parentheses, and the operators +, -, and \*.

Intermediate values are guaranteed never to exceed +- 1,000,000,000.

## Output

The value of the expression.

### Input

$2 * 1 + 1$

### Output

4

### Input

$(20) * (2 + 1) + 1$

### Output

80

Use stacks.