

# Arithmetic Evaluation

Evaluate a parenthesized expression of single-digit positive integers and the binary operators  $+$ ,  $-$ ,  $*$ .

The order of operations differs from the canonical one in that operations have no precedence; they are simply evaluated from left-to-right, with only parentheses affecting the order of evaluation.

Every intermediate step is guaranteed to have absolute value no greater than 1,000,000,000.

## Input:

Input is an arithmetic expression of single-digit positive integers, the binary operators  $+$ ,  $-$ ,  $*$  and parentheses  $()$ . The arithmetic expression will be well-formed and will have no spaces.

## Output:

The evaluated value of the arithmetic expression.

### Example Input 1:

1\*2+1

### Example Output 1:

3

### Example Input 2:

1+1\*2

### Example Output 2:

4

### Example Input 3:

(5\*6)-(4+(1))

### Example Output 3:

25