

ARTHEVAL - Arithmetic Evaluation

no tags

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 Input 2:

1+1*2

Example Input 3:

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

Example Output 1:

3

Example Output 2:

4

Example Output 3:

25

Submit solution!

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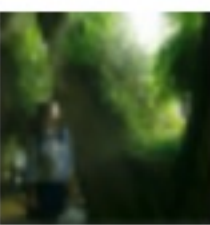
Simes: 2023-08-02 20:41:08

I've corrected the 3rd example to remove the double-digit integer.



Saurabh Suman: 2017-05-03 13:21:16

Input might contain '0'



Kriti Joshi: 2014-12-18 06:09:41

Input only contains positive single digit integers. AC in one go :)

Last edit: 2014-12-18 06:10:06



Mitch Schwartz: 2012-04-10 19:02:23

Based on my experiment, all the integers in the input are single-digit, so you may ignore the third example.



Daniel Hui: 2012-04-07 17:27:28

Are you sure all integers are single-digit? Your third example input has a two-digit integer.

Last edit: 2012-04-07 17:27:36

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Submit solution!

Added by: [Paul Draper](#)

Date: 2012-04-06

Time limit: 1s

Source limit: 50000B

Memory limit: 1536MB

Cluster: [Cube \(Intel G860\)](#)

Languages: All except: ASM64

Evaluate this problem



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