Solve!

Java May'19 DSA Recursion 2 - 1 day 22:29:41

You are given a mathematical expression containing digits, the operators "+", "-" and "*" and paranthesis ("(", ")").

Given that the expression is always valid, calculate it!

Notes

- The expression will always have the format: `{NUMBER}{OPERATOR}({SUBEXPRESSION})`
  - `45 + 55`, `45+(24*(12+3))`, `12*(35-(46*(5+15)))` are valid expressions
  - `(24) * 4`, `4-(24)`, `(35*55)*5`, `5+5*(35-5)`, `6+(55-6)-7` are invalid

Input

Read from the standard input

- On the single line of the input, read the expression

Output

- On the single line of the output, print the result

Constraints

- The expression will always have length less than 100 characters
- The result can become very large or small, so keep this in mind

Sample tests

Input

```
45 + 55
```

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Submit solution

My submissions
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Best submissions

Points: 100 (partial)
Time limit: 0.5s
Memory limit: 32M
Author: donchominkov

Tags
Recursion
Difficulty
Intermediate

Allowed languages
java

```
100
```

Input

```
45+(24*(12+3))
```

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Output

```
405
```

Copy

Input

```
12*(35-(46*(5+15)))
```

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Output

```
-10620
```

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