≡   Hello, **2024101067**.

Evalute Postfix

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You are given a **single string** representing an arithmetic expression in **Postfix notation**. Your task is to evaluate the expression and return its integer value.

How Postfix Notation Works

In **Postfix notation**, operators (`+` , `-` , `*`) appear **after** their operands instead of between them.

Example to explain notation:

Expression : `a * d - (b + c)`

Postfix Notation : `a d * b c + -`

Explanation

1. Multiply `a * d`
2. Add `b + c`
3. Subtract `(a * d) - (b + c)`

Input Format:

- The first line contains an integer `n` , the length of the string.
- The second line constains the postfix expression.
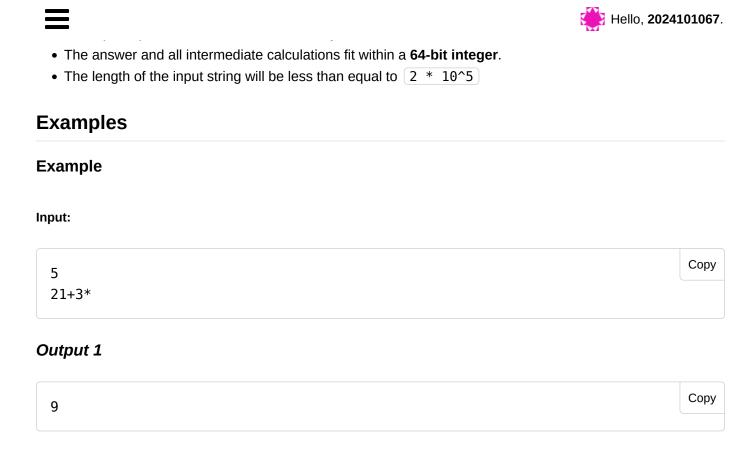
Output Format:

- Output a single integer, the evaluated postfix expression.

Constraints

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- The answer and all intermediate calculations fit within a **64-bit integer**.
- The length of the input string will be less than equal to `2 * 10^5`

Examples

Example

Input:

```
5
21+3*
```

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Output 1

```
9
```

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❓ Clarifications

Request clarification

No clarifications have been made at this time.