

## Problem Description

An arithmetic expression in Reverse Polish Notation will be given. Your task is to evaluate the expression and return the result. Valid operators are +, -, \*, /. Each operand can be an integer or another expression.

Refer to this link to understand [Reverse Polish Notation](#).

Note: Perform Integer division always.

Note: It is guaranteed that an answer exists and that the answer will fit into a 64 bit integer.

## Input format

In the first line an integer N will be given.

In the next line N space separated strings will be given.

## Output format

Print a integer in a single line

## Constraints

$N \leq 2 \cdot (10^5)$

Length of each string is at max 4

## Sample Input 1

3  
4 5 +

## Sample Output 1

9

## Explanation 1

The expression will be treated as (4 + 5 ) which results in 9.

## Sample Input 2

7  
4 5 + 7 9 - +

## Sample Output 2

7

## Explanation 2

The expression will be treated as ( (4 + 5) + (7 - 9) ) which results in 7.