Evaluate Reverse Polish Notation

Try to solve the Evaluate Reverse Polish Notation challenge.

> **We'll cover the following** ∧
>
> - Statement
> - Examples
> - Understand the problem
> - Try it yourself

Statement

Evaluate the value of an arithmetic expression in Reverse Polish Notation. **Reverse Polish notation (RPN)** is a mathematical notation, where every operator follows all of its operands.

Valid operators are `+`, `−`, `*`, and `/`. Each operand may be an integer or another expression. The division between two integers should truncate toward zero.

It's guaranteed that the given Reverse Polish Notation expression is always valid. That means the expression always evaluates a result, and there shouldn't be any division by zero operations.

Constraints:

- $1 \leq$ `tokens.length` $\leq 10^4$
- `tokens[i]` is either an operator: `+`, `−`, `*`, or `/`, or an integer in the range $[-200, 200]$.

Examples

Sample example 1

Input

tokens	2	1	+	3	*

- -

Output

Value	9

Sample example 2

Input

tokens	4	13	5	/	+

- -

Output

Value	6

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Reverse Polish Notation

1

What is the correct value of this arithmetic expression?

tokens = ["3", "2", "*", "11", "−"]

A) 5

B) -5

C) 19

D) -19

Submit Answer

< Question 1 of 2
0 attempted >

Reset Quiz ↻

Try it yourself

Implement your solution in the following coding playground:

☕ Java

usercode > ReversePolish.java

```java
1  import java.util.*;
2  public class ReversePolish{
3      public static int rpn(String[] arr) {
```

```java
7          return -1;
8      }
9  }
```

Submit

Test Cases   Results

Case 1   Case 2   Case 3

Input #1

["2","1","+","3","*"]

Evaluate Reverse Polish Notation

Hide Hint

You might want to go over the Stacks pattern again.

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Container with the Mo...

4Sum

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