

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

11

Description

Solution

Discuss (999+)

Submissions

i

Java

Autocomplete

i

{ }

↶

↷

↺

↻

150. Evaluate Reverse Polish Notation

Medium

2958

626

Add to List

Share

Evaluate the value of an arithmetic expression in Reverse Polish Notation.

Valid operators are `+`, `-`, `*`, and `/`. Each operand may be an integer or another expression.

Note that division between two integers should truncate toward zero.

It is guaranteed that the given RPN expression is always valid. That means the expression would always evaluate to a result, and there will not be any division by zero operation.

Example 1:

Input:

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

Output:

9

Explanation:

$((2 + 1) * 3) = 9$

Example 2:

Input:

tokens = ["4","13","5","/","+"]

Output:

6

Explanation:

$(4 + (13 / 5)) = 6$

Example 3:

Input:

tokens = ["10","6","9","3","+","-11","*","/","*", "17","+","5","+"]

Output:

22

Explanation:

$((10 * (6 / ((9 + 3) * -11))) + 17) + 5$
 $= ((10 * (6 / (12 * -11))) + 17) + 5$
 $= ((10 * (6 / -132)) + 17) + 5$
 $= ((10 * 0) + 17) + 5$
 $= (0 + 17) + 5$
 $= 17 + 5$
 $= 22$

Constraints:

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

Accepted 404,681

Submissions 951,891

Seen this question in a real interview before?

Yes

No

Companies

i

Related Topics

Similar Questions

1

2

3

4

5

class Solution {

public int evalRPN(String[] tokens) {

}

}

⌵

Problems

✂

Pick One

<

Prev

150/2258

Next

>

Console

Contribute

i

▶

Run Code

^

Submit

https://leetcode.com/problems/evaluate-reverse-polish-notation/

1/1