

Description

Solution

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## 150. Evaluate Reverse Polish Notation

Medium

2709

605

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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

Java

Autocomplete

```
1  class Solution {
2      public int evalRPN( String[] tokens ) {
3          Stack<Integer> stack = new Stack<>();
4
5          for (String expression : tokens) {
6              switch (expression) {
7                  case "+" -> stack.push(stack.pop() +
8                      stack.pop());
9                  case "-" -> stack.push(-stack.pop() +
10                     stack.pop());
11                  case "*" -> stack.push(stack.pop() *
12                     stack.pop());
13                  case "/" -> {
14                      int b = stack.pop();
15                      int a = stack.pop();
16                      stack.push(a / b);
17                  }
18                  default ->
19                      stack.push(Integer.parseInt(expression));
20              }
21          }
22      }
23      return stack.pop();
24  }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms



Your input

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

Output

9



Diff

Expected

9

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