

150. Evaluate Reverse Polish Notation

- You are given an array of strings tokens that represents an arithmetic expression in a Reverse Polish Notation.
- Evaluate the expression. Return an integer that represents the value of the expression.

Note that:

- The valid operators are '+', '-', '*', and '/'.
- Each operand may be an integer or another expression.
- The division between two integers always truncates toward zero.
- There will not be any division by zero.
- The input represents a valid arithmetic expression in a reverse polish notation.
- The answer and all the intermediate calculations can be represented in a 32-bit integer.

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].