224. Basic Calculator

- Given a string s representing a valid expression, implement a basic calculator to evaluate it, and return the result of the evaluation.

- **Note:** You are not allowed to use any built-in function which evaluates strings as mathematical expressions, such as eval().

Example 1:

- **Input:** s = "1 + 1"

- **Output:** 2

Example 2:

- **Input:** s = " 2-1 + 2 "

- **Output:** 3

Example 3:

- **Input:** s = "(1+(4+5+2)-3)+(6+8)"

- **Output:** 23

Constraints:

- $1 <= $ s.length $<= 3 * 105$

- s consists of digits, '+', '-', '(', ')', and ' '.

- s represents a valid expression.

- '+' is not used as a unary operation (i.e., "+1" and "+(2 + 3)" is invalid).

- '-' could be used as a unary operation (i.e., "-1" and "-(2 + 3)" is valid).

- There will be no two consecutive operators in the input.

- Every number and running calculation will fit in a signed 32-bit integer.