# 224. Basic Calculator

## Description

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 <=  $3 * 10^{5}$
- 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.