#### 題目敘述:

Given a string s which represents an expression, evaluate this expression and return its value.

The integer division should truncate toward zero.

You may assume that the given expression is always valid. All intermediate results will be in the range of  $[-2^{31}, 2^{31} - 1]$ .

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

### Example 1:

```
Input: s = "3+2*2"
Output: 7
```

# Example 2:

```
Input: s = " 3/2 "
Output: 1
```

## Example 3:

```
Input: s = " 3+5 / 2 "
Output: 5
```

#### 參考答案

```
class Solution {
public:
   int solve (string &s) {
    int ans = 0, tmp = 0;
    char op = '+';
}
```

```
stack<int> st;
        const int n = s.length();
        for (int i = 0; i < n; ++i) {
           char c = s[i];
           if (isdigit(c)) tmp = tmp * 10 + (c - '0');
           if ((!isdigit(c) and c \neq ' ') or i = n - 1) {
               if (op = '/') {
                   int now = st.top(); st.pop();
                    st.push(now / tmp);
               }else if (op = '*') {
                   int now = st.top(); st.pop();
                    st.push(now * tmp);
               }else if (op = '+') st.push(tmp);
               else st.push(-num);
               op = c, tmp = 0;
           }
       }
        while (!st.empty()) {
           ans += st.top();
           st.pop();
       return ans;
   }
}
```