

Evaluation of Postfix Expression

Given string **S** representing a postfix expression, the task is to evaluate the expression and find the final value. Operators will only include the basic arithmetic operators like *****, **/**, **+** and **-**.

Example 1:

Input: S = "231*+9-"

Output: -4

Explanation:

After solving the given expression, we have -4 as result.

Example 2:

Input: S = "123+*8-"

Output: -3

Explanation:

After solving the given postfix expression, we have -3 as result.

Your Task:

You do not need to read input or print anything. Complete the function

****evaluatePostfixExpression()**** that takes the string S denoting the expression as input parameter and returns the evaluated value.

Expected Time Complexity: $O(|S|)$

Expected Auxilliary Space: $O(|S|)$

```
def EvaluatePostfix(self, S):  
    #code here  
    stack = []  
    for ele in S:  
        if ele not in {'*', '/', '+', '-'}:  
            stack.append(int(ele))  
        else:  
            temp = self.eval(stack.pop(), stack.pop(), ele)  
            stack.append(temp)  
    return stack[-1]  
  
def eval(self, v2, v1, opr):  
    if opr == "+":
```

```
        return v1+v2
elif opr=="-":
    return v1-v2
elif opr=="*":
    return v1*v2
else:
    return v1//v2
```