

## 3) (5 pts) ALG (Stacks)

Evaluate the following postfix expression shown below, using the algorithm that utilizes an operand stack. Show the state of the operand stack at each of the indicated points in the expression:

3    4    2    1    +    \*    24    **A**    6    /    9    **B**    4    -    **C**    +    -    /

24
12
3

**A**

9
4
12
3

**B**

5
4
12
3

**C**

Value of the Postfix Expression: **1**

**Grading: 1 pt for each stack (all or nothing), 2 pts for the answer (also all or nothing)**