

3) (5 pts) ALG (Stacks)

Convert the following infix expression to postfix using a stack. Show the contents of the stack at the indicated points (1, 2, and 3) in the infix expression.

$$A + (B * (C - D \quad \quad \quad)) + ((E / \quad \quad \quad F) + G) \quad \quad \quad + H$$

1
2
3

-
(
*
(
+

1

/
(
(
+

2

+

3

Resulting postfix expression:

A	B	C	D	-	*	+	E	F	/	G	+	+	H	+					
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Grading: 1 point for each stack, 2 points for the whole expression (partial credit allowed.)