

Task 1: Use a stack to **manually** convert the following infix expression to postfix expression:

$$a * b / (c - a) + d * e$$

Next Character from Infix Expression	Postfix From	Operator Stack (bottom to top)
a	a	
*	a	*
b	ab	*
/	ab*	
	ab*	/
(ab*	/ (
c	ab*c	/ (
-	ab*c	/ (-
a	ab*ca	/ (-
)	ab*ca-	/ (
	ab*ca-	/
+	ab*ca-/	+
d	ab*ca-/d	+
*	ab*ca-/d	++*
e	ab*ca-/de	++*
	ab*ca-/de*	
	ab*ca-/de*+	

$$ab * ca - / de * +$$