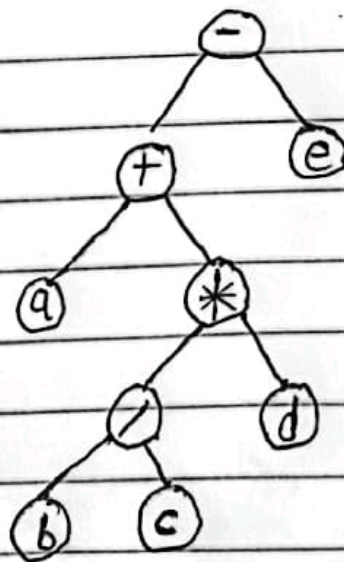


1.  $a + b/c * d - e \rightarrow$  postfix using a stack

Token	stack	postfix
a		a
+	+	a
b	+	ab
/	+ /	ab
c	+ /	abc
*	+ *	abcd
d	+ *	abcd
-	-	abcd/* +
e	-	abcd/* + e
		abcd/* + e -

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



2. Convert  $a + b/c * d - e$  to postfix expression

By hand

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

$$a + bcd/* - e$$

$$abcd/* + - e$$

$$abcd/* + e -$$

$$abcd/* + e -$$

Convert the prefix expression  $+ a * b c$  to an infix using a stack.

$+ a * b c$

token	stack	infix
c	c	
b	cb	
*		$(b * c)$
a	$(b * c), a$	
+		$a + (b * c)$

$a + (b * c)$