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Conversion from infix to postfix

A Postfix expression is an arithmetic expression where the operator follows the operand.

Consider the conversion of an infix to a postfix expression:

$$((A + (B - C) * D) ^ E + F)$$

$$((A + T1 * D) ^ E + F)$$

$$((A + T2) ^ E + F)$$

$$(T3 ^ E + F)$$

$$(T4 + F)$$

$$T5$$

The table here displays the values of the **infix expressions** for each substitutions and its corresponding **postfix expression** based on the precedence of operators.

Infix	Postfix
$T1 = B - C$	$B C -$
$T2 = T1 * D$	$T1 D *$
$T3 = A + T2$	$A T2 +$
$T4 = T3 ^ E$	$T3 E ^$
$T5 = T4 + F$	$T4 F +$

Substitute the corresponding postfix expression to get the final postfix expression for a given infix expression.

$$T5$$

$$T4 F +$$

$$T3 E ^ F +$$

$$A T2 + E ^ F +$$

$$A T1 D * + E ^ F +$$

$$A B C - D * + E ^ F +$$

The above is a postfix expression for the given infix expression.

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