



S1_01 Data Structures And Algorithms : Subject Content

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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:

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

 $((A + T1 * D) * E + F)$
 $((A + T2) * E + F)$
 $(T3 * E + F)$
 $(T4 + F)$

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	BC-
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

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

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