

## Infix To postfix

Algorithm used:

Step 1:- Add "(" to the end of the infix expression.

Step 2:- Push ( onto the stack.

Step 3:- Repeat until each character in the infix notation is scanned.

→ IF a "(" is encountered, push it onto the stack.

→ IF an operand is encountered, add its postfix expression.

→ IF a ")" is encountered, then

a. Repeatedly pop from stack and add it to a Postfix expression until a "(" is encountered.

b. Discard the "(" that is, remove the "(" from stack and ~~each operator to the postfix expression which has the same precedence or higher precedence than~~ add it to Postfix expression.

→ If an operator O is encountered, then

a. Repeatedly pop from stack and add each operator to the Postfix expression which has the same precedence or higher precedence than O.

[END OF IF]

→ STEP 4:- Repeatedly pop from the stack and add it to the Postfix expression until stack is empty.

→ STEP 5: EXIT.