

Converting an infix Expression to Postfix Expression

Steps to convert infix expression to postfix :-

- 1) Scan the given infix expression from left to right.
- 2) If the scanned character is an operand, then output it.
- 3) Else,
 - If the precedence of the scanned operator is greater than the precedence of the operator in the top stack (or the stack is empty or if the stack contains a '('), push it.
 - Else, Pop all operators from the stack whose precedence is greater than or equal to that of the scanned operator. Then, push the scanned operator to the top of the stack.
- 4) If the scanned character is '(', push it to the stack.
- 5) If the scanned character is ')', pop the stack and output characters until '(' is encountered, and discard both the parentheses.
- 6) Repeat steps 2-5 until infix expression is scanned completely.
- 7) Print the output.
- 8) Pop and output from the stack.