Stack: infix to postfix

26 April 2023 17:59

1) start scanning from left to right

2) If(current element is an operand)

5*3/2*6/4+7-3+8/2

Stack:

Infix:

Append it to the postfix expression

Else

}

// If(current element is an operator)

While(stack is not empty && priority of topmost element >= priority of

current element)

Pop element from the stack and append it to postfix expression

Push current element onto the stack.

Current element:

Postfix expression: 53*2/6*4/7+3-82/+

- 3) Repeat the above steps till end of infix expression
- 4) Pop all the remaining elements from the stack one by one and append them to postfix expression

infix atib > a,b operands

+ > operator

+ ab > prefix ab + > postfix

5*3/2*6/4+7-3+8/2

0 0 3 4 6 7 8 S 5 + 3/2 + 6/4 + 7 - 3 + 8/2

534/276/4+1-3+8/2 53 × 2 / × 6 / 4 + 7 - 3 + 8 / 2 53 + 2/6 × /4 +7-3+8/2

53 + 2/6 + 4/ + 7 - 3 + 8/2 53 42/6 44/ +7-3+ 82/

53 + 2/6 + 4/7+ - 3 + 82/

53 72/6 74/7+3- + 82/

53*2/6*4/7+3-82/+

53 x 2 /6 x 4/7 +3 - 82/+ -> postfix Exp