

Infix to prefix algorithm

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- 1) start scanning from right to left
- 2) If(current element is an operand)
Append it to the prefix 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 prefix expression
}
Push current element onto the stack.
- 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 prefix expression
- 5) Reverse the prefix expression

Infix expression:
5*3/2*6/4+7-3+8/2

Current element :

Prefix Expression:
28/3746235*/*/+--

Reverse:
+-+/*/*5326473/82

Stack :