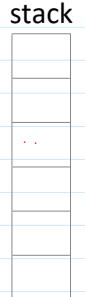


- 1) start scanning from left to right
 - 2) If(current element is an operand)
Append it to the postfix expression
 - 3) Else if (current element is opening bracket '(')
Push it onto the stack
 - 4) Else if current element is closing bracket ')'
 - Pop elements from the stack and append them to postfix exp till its corresponding opening brackets does not occur
 - Pop opening brackets from the stack and discard both the brackets

Infix expression :
5+9-4*(8-6/2)+1\$(7-3)

Current element :

Postfix expression:



top

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.

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

$$5+9-4*(8-6/2)+1\$ (7-3)$$

()
1
* / %
+ -

$$5 + \underline{9} - \underline{4} * \underline{(8 - \underline{6 / 2})} + \underline{1\$ (\underline{7 - 3})}$$

$$5 + 9 - 4 * (8 - \underline{62}) + 1 \$ (7 - 3)$$

$$\begin{array}{r}
 5 + 9 - 4 * \underline{\underline{862}}/- + 1\$ \quad \underline{\underline{73}}-
 \\[1ex]
 5 + 9 - 4 * \underline{\underline{862}}/- + 173-\$ \\
 \end{array}$$

$$\underline{5+9-48621-\cancel{x}} + \underline{173-\$}$$

$$\underline{597} - \underline{48621.} + \underline{173-\$}$$

$$\begin{array}{r} 59 + 48621 - * - \\ \hline \end{array} \quad + \quad \begin{array}{r} 173 - \$ \\ \hline \end{array}$$

$59+4862/-\ast-173-\$+$ → postfix

$59+4862/-\ast-173-\$+$

$59+4862/-\ast-173-\$+$