

1) Start scanning the postfix expression from left to right

Postfix exp : 59+4862/-*-173-\$+

2) If current element is an operand

Push it onto the stack

Current element : +

Stack of operands

Else

If current element is an operator

- Pop two elements (operands) from the stack.
- 1st popped element will be 2nd operand : op2
- 2nd popped element will be 1st operand : op1
- Perform cur element operation between op1 and op2
- Result = op1 opr op2
- Push back result onto the stack

Op1 : 5

Op2 : 9

Result : =

Result = -5

Stack

3) Repeat the above steps till end of postfix exp

4) Pop final result from the stack.

()

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* / %

+ -

Infix Expression :

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

$$\textcircled{6} \quad \textcircled{7} \quad \textcircled{5} \quad \textcircled{2} \quad \textcircled{1} \quad \textcircled{8} \quad \textcircled{4} \quad \textcircled{3}$$

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

8-6/2

5+9-4* 862/- +1\$ 73-

5+9-4* 862/- + 173-\$

5+9-4862/-* + 173-\$

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

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

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

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