

EVALUATE

Evaluate ():

Description: Here **P** is a postfix expression and this algorithm evaluates it.

1. Add a ")" right parenthesis at the end of P.
2. Scan P from left to right and repeat steps 3 & 4 for each element of P until ")" is encountered.
3. If an operand is encountered, push it onto stack.
4. If an operator \otimes is encountered then:
 - (a) Pop the top two elements from stack, where A is the top element and B is the next to top element.
 - (b) Evaluate $B \otimes A$.
 - (c) Place the result of (b) back on stack.[End of Step 4 If]
[End of step 2 For Loop]
5. Set VALUE equal to the top element on the stack.
6. Exit.