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 \( \oplus \) 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 \( B \oplus A \).
   (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.