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② Write a program to convert a given valid parenthesized infix arithmetic expression to postfix expression. The expression consists of single character operands and the binary operators +, -, *, /.

```
Convert Infix - Postfix (Exp)
{
Create a stack S
for i = 0 to length (exp) - 1
{   if   exp [i] is operand
        res = res + exp [i]
    else if  exp [i]  is operator
while ( != is. empty() && HasHigherP ( S.TOP(), Exp(i))
  {   res = res + S.TOP ()
        S.POP ()
  }
    S.PUSH( exp[i])
else if    is openingpar ( exp[i])
  S. push ( exp [i] )
else if   isclosingpar ( exp [i])
while ( != isempty() && != isopening (S.TOP())
{    res = res + S.TOP ()
       S.POP ()
  }
  S.POP()
}
while ( != is. empty())
{   res = res + S. TOP ()
     S. POP()
  }
return res   }
```