

5/10/20

Q) WAP to convert infix to postfix. The expression consists of single character operands & the binary operators '+', '-', '*' & '/'.

Ans: Infix to Postfix (exp)

```

{ create a stack S
  for i <= 0 to length(exp)-1
  { If exp[i] is operand
    res <= res + exp[i]
  elseif exp[i] is operator
    while (!s.empty() && has higher Pre
           (s.top(), exp[i]))
    { res <= res + s.top()
      s.pop()
    }
    s.push(exp[i])
  elseif IsOpenParenthesis(exp[i])
    s.push(exp[i])
  elseif IsCloseParenthesis(exp[i])
    { while (!s.empty() && IsOpen
           Parenthesis(s.top()))
      { res <= res + s.top()
        s.pop()
      }
      s.pop()
    }
  }
  while (!s.empty())
  { res <= res + s.top()
    s.pop()
  }
  return res
}

```