LAB - 2 1 BM12 (2061 I WAP to convert a given volid parenthesized infix anithmetic expression to postfix expression The expression consist of single character operands I the binary operators + (plus), - (mim) * (multiply) , (divide). #include < Stolio.h> # include < storing. h> int f (char Symbol) switch (symbol) case '+':

case '-': return 2; case ' 1': return 4; case (\$1: case (\$'}: return 5; case ((: return 0; case '#': return -1; default : return 8;

int y (chan symbol) switch (Symbol)

> cure ' * ' : Conse '/': return b; cure ' n' !

case '-' : return 1;

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Care 's': return 6;
           Cose 'l': return 9;
            come ')' : return 0;
           default: return 7;
void infix - postfix (char infix [], char postfix[])
 2
    int top , i, j;
     chan 8[30], symbol;
     top = -1;
     ( '#' = [ dut ++]8
      j = 0;
      for ( i = 0; i < strlew (infix); i++)
        Symbol = infix [i];
        while (f(s[top]) > br(symbol))
              postfix [i] = s[top -- ];
               s [ tob] = Symbol;
               else
               tup - - ;
       while ( s[top ] ! = '#')
             postfix [ ] ++ ] = s[ top -- ];
         postfix Ci] = '\o';
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char infix [20];

char postfix [20];

printf ("Enter the valid infix expression ");

scanf ("Y.S", infix);

infix - postfix (infix, postfix);

printf ("The postfix expression is: \u");

printf ("Y.S \u", postfix);
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