```
Infix to Postfix (LAB-3)
  #include < stolio.h>
  # include < stdlib. h>
 # include < ctype. h>
 # define MAX 100
  char stack [MAX);
 ind top = -1;
 void push (char);
 char pop ();
 int precedence (char);
 void infix to postfix (char infix [], char postfix []);
 void push (chor x)
    il (top = = MAX-1)
         printf ("overflow! In");
    elee
        top++;
       Stock [top]= 2;
char pop()
   ib (10p == -1)
        printle ("underflow)");
      char popped = stack [top]
```

```
return popped;
 int precedence (chor symbol)
   ib (symbol=='1')
        return 3;
  elle if (symbol == * 11 symbol == 1')
   else il ( symbol == '+'11 symbol == '-')
      return 1;
  elle
word infix to post is (char infix [], char postfix [])
  itt 120; j=0;
  char symbol, temp;
   push ('#');
  while ((symbol = infix[i+ ])!='\o')
      i) (symbol = = '(')
              push (symbol);
       elle if (isalnum (symbol))
             postfix [j++] = symbol;
      else if (symbol = = ')')
            while (stack [to p] = '(')
                post(ix [j++) = pop();
            temp = popl);
```

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while (preceden ce (stock [top]) > = precedence (eymbol))
                 3 postbra [j++] = pop();
                 push (symbol);
         South (stock [top] (=#')

South (j+) = pop();
         post [i] = 10';
    int main ()
     chor infix [MAX], postfix [MAX];
     print[ l'Enter a volid parenthesized infix exp 1/n");
     Scen ("/5", Tufiz);
     infix to postfix (infix, postfix);
    print ("The postfix exp is: 7.5 \n", postfix);
    geturn 0;
 4
 Enter a valid perenthesized infix exp;
a * b + c * d -e
The post ix exp is: (ab * cd * + e-
```

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