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LAB3 - Infix to Postfix.
 WAP to convert a given valid parenthesized infix arithmetic expression to post fix expression. The expression consists of single character operands and the binary operators
  #include < stdio. h?
  # define MAX 100
  char stack [MAX];
int top = -1;
 boid fush (charch);
 char pop ();
int stackempty ();
alor stacktop [];
int priority (chas ch);
aut main ()
       char infix [100];
       int i, item;
       paintf l'Enter the infix expressions: ");
        mary ("1.5", infix);
         printf (" \m postfix: ");
```

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i=0 :
while (infix[i]!='10')
   switch (infex [i])
       case '(': push (infix [i]);
                   break;
       case ')': while ((item = hop ()!= '(')

printf ("-1.e", item);
                     break;
       Care '-';
            while (! stackempty () &&
                   priority (infix[i]) <=
                                Leionity (stacktope)
                         item = pop!!;
                         printf ("1.c", item);
                       push (infiacis);
```

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default: printf ("1. C", infix (i));
             break;
             (Cistipal day : ) son
while (! stackenfty ())
  char item;
  item = pop ();
  paintf ["-1.c", item);
dint ["(n));
 return 0',
boid push (char ch)
    if (+&p = MAX-1)
   printf(" stack is full \m');
         stack [top] = ch;
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if (top == -1) printf ("In stack is unfity !"); item = stack [tep]; top--;
return item; int stackempty () if (top ==-1) return 1; return 0°, char stacktop () if (+10/ ==-1) printf ("In stack is empty !"); else stack [top];

int priority (dos ch) switch (dr) Cose +':
cose :- : return (1); Ligary dunt Cast 11': return (2); core .v.; return (3); Bost default: return (0); () Khadasa expected outfut. Enter the infix expression: 6\*(5+(2+3)\*8+3) Postfix: 652348\*43+\*

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