## INDEX

SINO. Date Tittle

1. 29/09/25 Rush, for peek

20 6/10/25 Infix to pasha

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1.

Tocher

1 (1)

\$ (b) 6/10

postfix, and

Color postfix.

top of clack 7= ch.

```
Pop from the stack and add to postfox
      Push ch into Stack.
   while stack is not empty?
      for from stack and add to postpix print postfix.
 Code:
 # include (Stello. b)
# include < ctype. h)
# include (String. 47
# defene MAX 100
 Char Hack [MAX];
 int top = -1;
 # Push function
  voil push (char Of
      1 (top = = MAX -1) 1
           rinty (" stack overflowin);
      return)
     Stack [++top] = ()
```

char P

11 peex

Char

1 Fund

```
# pop function
  char pop() !
       of (top == -1) {
              Print ("track underflows In"))
               return -1,
         return Hack [top-];
 Il peek function
   char peek () {
         4 (top = = -1) return -1;
          return stack[ [ ];
  I function to return precedence of operators into precedence (char op)
           Justich Cop) {
               (ase ' - 's
                     return 1:
                (ase 1 *1 :
                       return 2;
                 Case ' 1' :
                       return 3;
                  Cose: C':
                        return 0;
              return - 1;
```

```
11 Function to return associate vity
 110 = left to light, 1 = light to left
   1 nt asso clativity (than op) {
        4 (p== 'n')
              return 1; 1/R to L
         return 0; 11 L to R
Il hundler to convert Infix to postfix.
  void infix To Postfix (char infix [], char postfix []) {
        int 1 , K=0;
        char c:
        for (1=0; infix [1]] = 10 : 1+){
      C=infle [i);
                 of (is extradrum (c)){
                         "operand -> directly to posts
                         Postifix [K++] = C
                Else if ( c = = '(') {
                        Push (c);
                 else & ( == ')') {
                      while (peers):='('){
                           Podyex [k++] = POP();
                       Pop (); // distant 'c'
```

else

int

```
and the expense of the
                                         whele (top! = -1'11 ((precedence (poex (3) > precedence (co) 1)
                Clase &
                                        11 operator
                                                                         (precedence (peex ()) == precedence (0) 09
                                                                                                              associativity (0 ==0))) { IL to X
                                                                         Postfix [K++] = pop 3
                     Push(C) i man and a man an
         11 pop remaining operators.
                while (top! = -1) {
                                             100× (X++) = 10p();
                 (00tflx [K] = 10);
int man () {
                                  Char infox [MAX], postepix [MAX];
                                    Printy ("Enter a valid parenthesized Enfix expression:"):
                                      Scart ("1.5" infex);
                                        infix to poster ( infix, pooter x):
                                        Printy ("Postfix Expression: ".sIn", postflx).
                                      return 0;
```

off

Briter infix expression = a\*b(c+d)

Postfix expression = abcd\*+\*

enter infix expression = all (de\* +

enter infix expression = all (de\* +

enter infix expression = (a + 16°c - (d/e\*f) + g) +b)

Postfix expression = abc\*de/f\*-g++h+