```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<ctype.h>
#include<stdlib.h>
#define MAX 20
void InfixtoPostfix(char source[],char target[]);
int getpriority(char);
void push(char [],char);
char pop(char []);
char st[MAX];
int top=-1;
int main()
    char infix[20],postfix[20];
    clrscr();
    printf("\n Enter any infix expression");
    gets(infix);
    InfixtoPostfix(infix,postfix);
    printf("\n The Corresponding postfix expression is :");
    puts(postfix);
    getch();
    return 0;
void InfixtoPostfix(char source[],char target[])
{
   int i=0, j=0;
   char temp;
   strcpy(target," ");
   while(source[i] !='\0')
      if(source[i]=='(')
          push(st,source[i]);
          i++;
       else if(source[i] ==')')
            while((top !=-1) && (st[top] !='('))
                 target[j]=pop(st);
                 j++;
               if(top==-1)
                 printf("\n Incorrect Expression");
                 exit(1);
               temp=pop(st);
               i++;
```

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else if(isdigit(source[i]) || isalpha(source[i]))
              target[j]=source[i];
              j++;
              i++;
         else if(source[i] =='+' || source[i]=='-' || source[i]=='*' ||
source[i]=='/'|| source[i]=='%')
               while((top !=-1) && (st[top]!='(') && getpriority(st[top]) >=
getpriority(source[i]))
                 {
                    target[j]=pop(st);
                    j++;
                  push(st,source[i]);
                  i++;
            }
            else
              printf("\n Incorrect Expression");
                 exit(1);
             }
      while((top !=-1) && (st[top] !='('))
        target[j]=pop(st);
        j++;
      target[j]='\0';
}
int getpriority(char op)
{
    if(op=='/' || op=='*' || op=='%')
      return 1;
    else if(op=='+' || op=='-')
       return 0;
void push(char st[],char val)
{
   if(top==MAX-1)
      printf("\n Stack Overflow");
   else
      top++;
      st[top]=val;
}
char pop(char st[])
```

```
{
    char val=' ';
    if(top==-1)
        printf("\n Stak Underflow");
    else
        {
            val=st[top];
            top--;
        }
      return val;
}
```