//Write a program to convert an postfix expression to its corresponding infix expression.

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

//Global Variable

char stack[50];

int top=-1;

//Function to Push Elements into Stack

void push(char ch)

{

stack[++top]=ch;

}

//Function to Pop Element From The Stack

char pop()

{

return stack[top--];

}

//function to convert from postfix to infix

void convert(char exp[])

{

int l,i,j=0;

char tmp[20];

strrev(exp);

l=strlen(exp);

for(i=0;i<50;i++){

stack[i]='\0';

}

printf("\nThe Infix Expression is : : ");

for(i=0;i<l;i++){

if(exp[i]=='+'||exp[i]=='-'||exp[i]=='\*'||exp[i]=='/')

push(exp[i]);

else{

tmp[j++]=exp[i];

tmp[j++]=pop();

}

}

tmp[j]=exp[top--];

strrev(tmp);

puts(tmp);

}

//Main Function

int main()

{

char exp[50];

//taking postfix expression

printf("\nEnter the Postfix Expression : : ");

gets(exp);

//calling the function to convert the expression

convert(exp);

return 0;

}