#include<stdio.h>

#include<stdlib.h>

#include<string.h>

# define MAX 20

char str[MAX], stack[MAX];

int top = -1;

char pop()

{

return stack[top--];

}

void push(char ch)

{

stack[++top] = ch;

}

void postfix\_to\_infix(char expression[])

{

int count, length;

char element, operator;

length = strlen(expression);

for(count = 0; count < MAX; count++)

{

stack[count] = 0;

}

printf("\nInfix Expression:\t");

printf("%c", expression[0]);

for(count = 1; count < length; count++)

{

if(expression[count] == '-' || expression[count] == '/' || expression[count] == '\*'|| expression[count] == '+')

{

element = pop();

operator = expression[count];

printf(" %c %c", operator, element);

}

else

{

push(expression[count]);

}

}

printf("%c", expression[top--]);

}

int main()

{

char postfix\_expression[50];

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

scanf("%s", postfix\_expression);

postfix\_to\_infix(postfix\_expression);

printf("\n");

return 0;

}