#include<stdio.h>

char stack[20];

int top = -1;

void push(char x)

{

    stack[++top] = x;

}

char pop()

{

    if(top == -1)

        return -1;

    else

        return stack[top--];

}

int priority(char x)

{

    if(x == '(')

        return 0;

    if(x == '+' || x == '-')

        return 1;

    if(x == '\*' || x == '/')

        return 2;

}

main()

{

    char exp[20];

    char \*e, x;

    printf("Enter the expression :: ");

    scanf("%s",exp);

    e = exp;

    while(\*e != '\0')

    {

        if(isalnum(\*e))

            printf("%c",\*e);

        else if(\*e == '(')

            push(\*e);

        else if(\*e == ')')

        {

            while((x = pop()) != '(')

                printf("%c", x);

        }

        else

        {

            while(priority(stack[top]) >= priority(\*e))

                printf("%c",pop());

            push(\*e);

        }

        e++;

    }

    while(top != -1)

    {

        printf("%c",pop());

    }

}