Program to convert infix expression to postfix expression

```c
#include<stdio.h>

#include<ctype.h>


char stack[100];

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;
```

```c
        if(x == '*' || x == '/')
            return 2;

        return 0;
}


int main()
{
    char exp[100];
    char *e, x;
    printf("Enter the expression :");
    scanf("%s",exp);
    printf("\n");
    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);
        }
```

```c
            else
            {
                while(priority(stack[top]) >= priority(*e))

                    printf("%c",pop());

                push(*e);

            }

            e++;

    }


    while(top != -1)

    {

        printf("%c",pop());

    }return 0;

}
```

Status Successfully executed **Date** 2021-03-25 10:58:19 **Time** 0 sec **Mem** 15.232 kB ✖

Input

```
(a+b)*c
```

Output

```
Enter the expression :
a b + c *
```