

INFIX TO POSTFIX

```
#include<iostream>
#include<ctype.h>

using namespace std;
char stack[20];
int top = -1;

void push(char x){
    stack[++top] = x;
}

char pop(){
    if (top == -1) return -1;
    else return stack[top--];
}

// returns the priority in the form of integer
int priority(char x){
    if (x == '(') return 0;

    if (x == '+' || x == '-') return 1;

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

    if (x == '^') return 3;
return -1;
}

// (2*3+4*(5-6))
int main(){
    char exp[20];
    char *e, x;

    cout<<"Enter the infix expression: ";
    cin>>exp;

    e = exp;
```

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```
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());
}
}
```