```c
#include<stdio.h>

char infix[100];
char postfix[100];
char stack[100];

int top = 0;

int F(char a){
    switch(a){
        case '+':
        case '-':
            return 2;
        case '*':
        case '/':
            return 4;
        case '$':
        case '^':
            return 5;
        case '#':
            return -1;
        case '(':
            return 0;
        default:
            return 8;
    }
}

int G(char b){
    switch(b){
        case '+':
        case '-':
            return 1;
        case '*':
        case '/':
            return 3;
        case '$':
```

```c
36          return 3;
37        case '$':
38        case '^':
39          return 6;
40        case ')':
41          return 0;
42        case '(':
43          return 9;
44        default:
45          return 7;
46    }
47 }

48
49 void convert(){
50    int i,j=0;
51    stack[top++] = '#';
52    for(i=0;infix[i]!='\0';i++){
53       while(F(stack[top-1])>G(infix[i])){
54          postfix[j++] = stack[--top];
55       }
56       if(F(stack[top-1])!=G(infix[i])){
57          stack[top++] = infix[i];
58       }else{
59          top--;
60       }
61    }
62    while(stack[top-1]!='#'){
63       postfix[j++] = stack[--top];
64    }
65    postfix[j] = '\0';
66 }

67
68 int main(){
69    scanf("%s",infix);
70    convert();
71    printf("%s\n",postfix);
72    return 0;
73 }
```