```c
#include <stdio.h>
#include <string.h>
int f (char symbol){
    switch (symbol){
        case '+':
        case '-': return 2;
        case '*':
        case '/': return 4;
        case '^':
        case '$': return 5;
        case '(': return 0;
        case '#': return -1;
        default: return 8; }}
int g (char symbol){
    switch (symbol){
        case '+':
        case '-': return 1;
        case '*':
        case '/': return 3;
        case '^':
        case '$': return 6;
        case '(': return 9;
        case ')': return 0;
        default: return 7; }}
```

```c
void in_po (char in[], char po[]){
int top, i, j;
char s[30], symbol; top = -1;
s[++top] = '#'; j = 0;
for (i=0; i < strlen(in); i++){
    symbol = in[i];
    while(F( s[top]) > G(symbol){
        po[j] = s[top--];
        j++ }
```

```c
    if (F(s[top]) != G(symbol))
        s[++top] = symbol;
    else
        top--;  }  }
while (s[top] != '#') {
    po[j++] = s[top--]; }
po[j] = '\0';  }

int main() {
    char in[20]; po[20];
    printf("Enter exp \n");
    in_po(in, po);
    fflush(stdin);
    printf("postfix exp \n");
    printf(".%s\n", po);
    return 0; }
```