② Infix to postfix:

```c
#include <stdio.h>
#include <string.h>
#include <process.h>

int F (char symbol)
{ switch (symbol)
    {
        case '+':
        case '-': return 2;
        case '*':
        case '/': return 4;
        case '^':
        case '$': return 5;
        case 'C': 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 'C': return 9;
        case ')': return 0;
        default : return 7;
    }
}
```

```c
void  infix_postfix (char infix[], char postfix[]) {
    int  top, j, i;
    char s[30], symbol;
    top = -1;
    s[++top] = '#';
    j = 0;
    for (i = 0; i < strlen(infix); i++) {
        symbol = infix[i];
        while ( F(s[top]) > G(symbol) ) {
            postfix[j] = s[top--];
            j++;
        }
        if ( F(s[top]) != G(symbol) ) {
            s[++top] = symbol;
        }
        else {
            top--;
        }
    }
    while ( s[top] != '#' ) {
        postfix[j++] = s[top--];
    }
    postfix[j] = '\0';
    printf("%s", postfix);
}

int main () {
    char infix[20], postfix[20];
    printf("Enter infix: ");
    scanf("%s", infix);
    infix_postfix(infix, postfix);
    return 0;
}
```