

```
#include <stdio.h>
#include <stdlib.h>
#include <string.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;
        case '#'': return -1;
        default: return 7;
    }
}
```

```

void conversion(char infix[], char postfix[]) {
    int top, i, j;
    char s[20], symbol;
    top = -1;
    s[top] = '#';
    j = 0;

```

```

    for (i = 0; i < strlen(infix); i++) {

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        symbol = infix[i];
        while (F(s[top]) > G(symbol)) {
            postfix[j] = s[top--];
            j++;
        }

```

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        if (F(s[top]) == G(symbol)) {
            s[top] = symbol;
        }

```

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        else {
            top--;
        }
    }

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    while (s[top] != '#') {
        postfix[j++] = s[top--];
    }

```

```

    postfix[j] = '\0';
}

```

```

int main() {

```

```

    char infix[20];

```

```

    char postfix[20];

```

```

    printf("Enter the exp:");

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```

    scanf("%s", infix);

```

```

    conversion(infix, postfix);

```

```

    printf("The postfix exp is %s", postfix);

```

```

    return 0;
}

```

Signature.....