

infix.c - Code::Blocks 20.03

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<global> main0: int

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```
1 #include <stdio.h>
2 #include <string.h>
3 #include <ctype.h>
4
5 #define max 30
6
7 char s[max];
8 int top = -1;
9
10
11 void push(char c) {
12     if (top == max - 1) {
13         printf("Stack Overflow\n");
14     } else {
15         s[++top] = c;
16     }
17 }
18
19
20 char pop() {
21     if (top == -1) {
22         printf("Stack Underflow\n");
23         return -1;
24     } else {
25         return s[top--];
26     }
27 }
28
29
30 int prec(char op) {
31     switch (op) {
32     case '^': return 3;
33     case '*' :
```

C:\Users\Admin\Desktop\1bm24cs210\infix.exe

Enter Infix expression: a+b*(c-d-e)/f
Postfix expression: abcd^e-*f/+

Process returned 0 (0x0) execution time : 24.312 s
Press any key to continue.

Logs & others

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File	Line	Message
		== Build file: "no target" in "no project" (compiler: unknown) == == Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ==

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C/C++ Windows (CR+LF) WINDOWS-1252 Line 49, Col 1, Pos 768 Insert Read/Write default

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```
28
29
30     int prec(char op) {
31         switch (op) {
32             case '+': return 3;
33             case '*':
34             case '/': return 2;
35             case '^': return 4;
36             case '-': return 1;
37             default: return -1;
38         }
39     }
40
41     int main() {
42         char infix[max], postfix[max];
43         printf("Enter infix expression: ");
44         scanf("%s", infix);
45
46         int k = 0;
47         int l = strlen(infix);
48
49         for (int i = 0; i < l; i++) {
50             if (isalnum(infix[i])) {
51                 postfix[k++] = infix[i];
52             } else if (infix[i] == '(') {
53                 push(infix[i]);
54             } else if (infix[i] == ')') {
55                 while (top != -1 && s[top] != '(') {
56                     postfix[k++] = pop();
57                 }
58                 pop();
59             } else {
60             }
61         }
62     }
63 }
```

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Enter Infix expression: a+b*(c-d-e)/f

Postfix expression: abcde^f-/

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<global> main0:int S C

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Projects Files F Workspace

```
48
49
50     for (int i = 0; i < l; i++) {
51         if (isalnum(infix[i])) {
52             postfix[k++] = infix[i];
53         } else if (infix[i] == '(') {
54             push(infix[i]);
55         } else if (infix[i] == ')') {
56             while (top != -1 && s[top] != '(') {
57                 postfix[k++] = pop();
58             }
59             pop();
60         } else {
61             while (top != -1 && prec(s[top]) >= prec(infix[i])) {
62                 postfix[k++] = pop();
63             }
64             push(infix[i]);
65         }
66     }

67
68     while (top != -1) {
69         postfix[k++] = pop();
70     }

71
72     postfix[k] = '\0';
73     printf("Postfix expression: %s\n", postfix);
74
75
76     return 0;
77
78
79 }
```

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