

LAB 2.c - Code::Blocks 20.03

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Start here Untitled2.c LAB 2.c

```
1 #include <stdio.h>
2 #include <string.h>
3
4 char infix[100], stack[100], postfix[100];
5 int top = -1;
6
7 void push(char ch) {
8     stack[++top] = ch;
9 }
10
11 char pop() {
12     return stack[top--];
13 }
14
15 int precedence(char op) {
16     switch (op) {
17         case '^': return 3;
18         case '*': return 2;
19         case '/': return 2;
20         case '+': return 1;
21         case '-': return 1;
22         default: return 0;
23     }
24 }
25
26 void infixToPostfix()
27 {
28     int i = 0, j = 0;
29     push('#');
30
31     while (infix[i] != '\0')
32     {
33         char symbol = infix[i];
```

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:\Users\Admin\Desktop\1BM24CS164\LAB 2.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 2, Pos 1 Insert Read/Write default

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```
34     if (symbol == '(')
35     {
36         push(symbol);
37     }
38     else if (symbol == ')')
39     {
40         char temp = pop();
41         while (temp != '(')
42         {
43             postfix[j++] = temp;
44             temp = pop();
45         }
46     }
47     else if (symbol == '+' || symbol == '-' || symbol == '*' || symbol == '/' || symbol == '^')
48     {
49         while (precedence(stack[top]) >= precedence(symbol))
50         {
51             postfix[j++] = pop();
52         }
53         push(symbol);
54     }
55     else
56     {
57         postfix[j++] = symbol;
58     }
59
60     i++;
61 }
62
63
64 while (stack[top] != '#')
65 {
66     postfix[j++] = pop();
67 }
```

Logs & others

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C:\Users\Admin\Desktop\1BM24CS164\LAB 2.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 2, Pos 1 Insert Read/Write default 22°C Cloudy 11.41.30 AM 29-09-2025

LAB 2.c - Code::Blocks 20.03

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Start here Untitled2.c LAB 2.c

```
51:     {
52:         postfix[j++] = pop();
53:     }
54:     push(symbol);
55: }
56: else
57: {
58:     postfix[j++] = symbol;
59: }
60:
61: i++;
62}
63
64 while (stack[top] != '#')
65{
66    postfix[j++] = pop();
67}
68
69 postfix[j] = '\0';
70}
71
72 int main()
73{
74    printf("Enter a infix expression:\n");
75    scanf("%s", infix);
76
77    infixToPostfix();
78
79    printf("Postfix expression:\n%s\n", postfix);
80
81    return 0;
82}
83
```

Logs & others

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"C:\Users\Admin\Desktop\1BM24CS164\LAB 2.exe"

Enter a infix expression:

A+B\*C-D/E\*H

Postfix expression:

ABC\*+DE/H\*-

Process returned 0 (0x0) execution time : 32.789 s

Press any key to continue.

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Type here to search



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11.41.56 AM  
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