

\*infix.c - Code::Blocks 20.03

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Start here × "infix.c" ×

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <ctype.h>
4
5 #define MAX 100
6 int indexx = 0, pos = 0, top = -1, length;
7 char symbol, temp, infix[MAX], postfix[MAX], stack[MAX];
8 void infixToPostfix();
9 void push(char symbol);
10 char pop();
11 int pred(char symbol);
12
13 int main()
14 {
15     printf("Enter the infix expression: ");
16     scanf("%s", infix);
17
18     infixToPostfix();
19
20     printf("Postfix expression: %s\n", postfix);
21     return 0;
22 }
23 void infixToPostfix()
24 {
25     length = strlen(infix);
26     push('#');
27     while (indexx < length)
28     {
29         symbol = infix[indexx];
30
31         switch (symbol)
32         {
33             case '(':
34                 push(symbol);
35                 break;
36
37             case ')':
38                 temp = pop();
39                 while (temp != '(')
40                 {
41                     postfix[pos++] = temp;
42                     temp = pop();
43                 }
44                 break;
45             case '+':
46             case '-':
47             case '*':
48                 break;
49             default:
50                 push(symbol);
51             break;
52         }
53     }
54 }
```

C:\Users\STUDENT\Downloads\CRC\infix.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 79, Col 3, Pos 1532 Insert Modified Read/Write default 18°C Partly sunny ENG IN 12:08:58 29-09-2025

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```
43     }
44     break;
45     case '+':
46     case '-':
47     case '*':
48     case '/':
49     case '%':
50         while (pred(stack[top]) >= pred(symbol))
51         {
52             temp = pop();
53             postfix[pos++] = temp;
54         }
55         push(symbol);
56         break;
57
58     default:
59         postfix[pos++] = symbol;
60         break;
61     }
62     indexx++;
63 }
64
65 while (top > 0)
66 {
67     temp = pop();
68     postfix[pos++] = temp;
69 }
70 postfix[pos] = '\0';
71
72 void push(char symbol)
73 {
74     stack[++top] = symbol;
75 }
76 char pop()
77 {
78     return stack[top--];
79 }
80 int pred(char symbol)
81 {
82     int p;
83     switch (symbol)
84     {
85     case '*':
86         p = 3;
87         break;
88     case '%':
89     case '/':
90         p = 2;
91         break;
92     case '+':
93     case '-':
94         p = 1;
95         break;
96     default:
97         p = 0;
98     }
99     return p;
100 }
```

C:\Users\STUDENT\Downloads\CRC\infix.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 5, Col 16, Pos 78 Insert Modified Read/Write default 18°C Partly sunny ENG IN 12:09:41 29-09-2025

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Management Projects Files FSymbols Resources C:\ Mask:

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```
61 } index++;
```

```
62 }
```

```
63 }
```

```
64 while (top > 0)
```

```
65 {
```

```
66     temp = pop();
```

```
67     postfix[pos++] = temp;
```

```
68 }
```

```
69 postfix[pos] = '\0';
```

```
70 }
```

```
71 void push(char symbol)
```

```
72 {
```

```
73     stack[++top] = symbol;
```

```
74 }
```

```
75 char pop()
```

```
76 {
```

```
77     return stack[top--];
```

```
78 }
```

```
79 int pred(char symbol)
```

```
80 {
```

```
81     int p;
```

```
82     switch (symbol)
```

```
83     {
```

```
84         case '^':
```

```
85             p = 3;
```

```
86             break;
```

```
87         case '**':
```

```
88             case '/':
```

```
89                 p = 2;
```

```
90                 break;
```

```
91         case '+':
```

```
92             case '-':
```

```
93                 p = 1;
```

```
94                 break;
```

```
95         case '(':
```

```
96             p = 0;
```

```
97             break;
```

```
98         case ')':
```

```
99             p = -1;
```

```
100            break;
```

```
101        default:
```

```
102            p = 0;
```

```
103    }
```

```
104 }
```

```
105 return p;
```

```
106 }
```

```
107 }
```

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Mask:

Enter the infix expression: (a+b)\*c%d/(e+f)  
Postfix expression: ab+c%d\*ef\*/

Process returned 0 (0x0) execution time : 47.699 s  
Press any key to continue.

98       break;  
99    case '#':  
100      p = -1;  
101      break;  
102    default:  
103      p = 0;  
104    }  
105    return p;  
106   }  
107 }

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18°C Partly sunny

Search

C/C++ Windows (CR+LF) WINDOWS-1252 Line 79, Col 2, Pos 1529 Insert Read/Write default

ENG IN 12:12:32 29-09-2025