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main.c

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<string.h>
4 int F(char symbol)
5 {
6     switch(symbol)
7     {
8     case '+':
9     case '-': return 2;
10    case '*':
11    case '/': return 4;
12    case '^':
13    case '$': return 5;
14    case '(': return 0;
15    case '#': return -1;
16    default : return 8;
17    }
18 }
19 int G(char symbol)
20 {
21     switch(symbol)
22     {
23     case '+':
24     case '-': return 1;
25     case '*':
26     case '/': return 3;
```

Language C  


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Language C



 


main.c

```
27 case '^' :
28 case '$' : return 6;
29 case '(' : return 9;
30 case ')' : return 0;
31 default : return 7;
32 }
33 }
34 void infix_postfix(char infix[],char postfix[]){
35 int top,j,i;
36 char s[30];
37 char symbol;
38 top=-1;
39 s[++top]='#';
40 j=0;
41 for(i=0;i<strlen(infix);i++){
42 symbol=infix[i];
43
44 while(F(s[top])>G(symbol)){
45 postfix[j]=s[top--];
46 j++;
47 }
48 if(F(s[top])!=G(symbol)){
49 s[++top]=symbol;
50 }
51 else
52 top--;
```


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main.c

```
52 top--;
53 }
54 while(s[top]!='#')
55 {
56 postfix[j++]=s[top--];
57 }
58 postfix[j]='\0';
59 }
60 void main()
61 {
62 char infix[20],postfix[20];
63 int c1=0,c2=0;
64 printf("Enter the valid infix expression:\n");
65 scanf("%s",infix);
66 for(int k=0;k<strlen(infix);k++)
67 {
68     if(infix[k]=='(')
69         c1++;
70     else if(infix[k]==')')
71         c2++;
72     else
73         continue;
74 }
75 if(c1!=c2)
76 {
77     printf("Invalid infix expression!");
```


input

Language C

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main.c

```
58 postfix[j]='\0';
59 }
60 void main()
61 {
62     char infix[20],postfix[20];
63     int c1=0,c2=0;
64     printf("Enter the valid infix expression:\n");
65     scanf("%s",infix);
66     for(int k=0;k<strlen(infix);k++)
67     {
68         if(infix[k]=='(')
69             c1++;
70         else if(infix[k]==')')
71             c2++;
72         else
73             continue;
74     }
75     if(c1!=c2)
76     {
77         printf("Invalid infix expression!");
78         exit(0);
79     }
80     infix_postfix(infix,postfix);
81     printf("The postfix expression is:\n");
82     printf("%s\n",postfix);
83 }
```

input



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Language C


main.c

```
72     else
73         continue;
74     }
75     if(c1!=c2)
76     {
77         printf("Invalid infix expression!");
78         exit(0);
79     }
80     infix_postfix(infix,postfix);
81     printf("The postfix expression is:\n");
82     printf("%s\n",postfix);
83 }
```


input

```
Enter the valid infix expression:
(a+(b-c)*d
Invalid infix expression!

...Program finished with exit code 0
Press ENTER to exit console.
```



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Language C

main.c


```
72     else
73         continue;
74     }
75     if(c1!=c2)
76     {
77         printf("Invalid infix expression!");
78         exit(0);
79     }
80     infix_postfix(infix,postfix);
81     printf("The postfix expression is:\n");
82     printf("%s\n",postfix);
83 }
```

input

```
Enter the valid infix expression:
(a+b)*(c-d)*(e/f)
The postfix expression is:
ab+cd-*ef/*

...Program finished with exit code 0
Press ENTER to exit console.
```

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