File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

Project   Classes

Stack_infixpostfix.cpp

```c
1   #include<stdio.h>
2   #include<string.h>
3
4   int F(char symbol)
5   {
6       switch(symbol)
7       {
8
9       case '+':
10      case '-': return 2;
11      case '*':
12      case '/':return 4;
13      case '^':
14      case '$':return 5;
15      case '(':return 0;
16      case'#':return -1;
17      default:return 8;
18      }
19  }
20  int G(char symbol)
21  {
22      switch(symbol)
23      {
24
25      case '+':
26      case '-': return 1;
27      case '*':
28      case '/':return 3;
29      case '^':
30      case '$':return 6;
31      case '(':return 9;
32      case')':return 0;
33      default:return 7;
34      }
35  }
36  void infix_postfix(char infix[],char postfix[])
37  {
38      int top,i,j;
```

Line: 45   Col: 27   Sel: 0   Lines: 75   Length: 1106   Insert   Done parsing in 0 seconds

Type here to search

12:37
30-09-2020
ENG

(globals)

Project   Classes   Stack_infixpostfix.cpp

```cpp
36    void infix_postfix(char infix[],char postfix[])
37    {
38        int top,i,j;
39        char s[30],symbol;
40        top=-1;
41        s[++top]='#';
42        j=0;
43        for(i=0;i<strlen(infix);i++)
44        {
45            symbol = infix[i];
46            while(F(s[top])>G(symbol))
47            {
48                postfix[j]=s[top--];
49                j++;
50            }
51            if(F(s[top])!=G(symbol))
52            s[++top]=symbol;
53            else
54            top--;
55        }
56
57        while(s[top]!='#')
58        {
59            postfix[j++]=s[top--];
60
61        }
62        postfix[j]='\0';
63    }
64
65    int main()
66    {
67        char infix[20];
68        char postfix[20];
69        printf("Enter the valid infix expression\n");
70        scanf("%s",infix);
71        infix_postfix(infix,postfix);
72        printf("The postfix expression is:\n");
73        printf("%s\n",postfix);
74
75    }
```

TDM-GCC 4.9.2 64-bit Release

```
Enter the valid infix expression
A+(B*C)-D
The postfix expression is:
ABC*+D-

---------------------------------
Process exited after 17.73 seconds with return value 0
Press any key to continue . . .
```