| #include <stdio.h></stdio.h> |
|--------------------------------|
| #include <string.h></string.h> |
| |
| int F(char symbol) |
| |
| 1 |
| switch(symbol) |
| |
| case '+': |
| case '-': return 2; |
| case "": |
| case '/': return 4; |
| case ": |
| case '\$': return 5; |
| case '(': return 0; |
| case #: return -1; |

| default return 8; |
|----------------------|
| |
| } |
| |
| int G(char symbol) |
| <i>f</i> |
| switch(symbol) |
| <i>f</i> |
| case '+': |
| case '-': return 1; |
| case "t": |
| case '/: return 3; |
| case ": |
| case '\$': return 6; |
| case '(': return 9; |
| case ')': return 0; |
| default return 7; |
| |

| } |
|---------------------------------------------------|
| 7 |
| |
| void infix_postfix (char infix[], char postfix[]) |
| <i>f</i> |
| int top, i j; |
| char s[30], symbol; |
| top =-1; |
| s[++top]= '#'; |
| j=0; |
| for(i=0;i { |
| symbol= infix[i]; |
| |
| while (F(s[top]) > G(symbol)) |
| <i>{</i> |
| postfix[j]= s[top]; |
| j++; |
| |

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| } |
|---------------------------|
| |
| if(F(s[top]) = G(symbol)) |
| <i>{</i> |
| s[++top] = symbol; |
| } |
| |
| else |
| f |
| top; |
| } |
| } |
| |
| while(s[top] = '#') |
| <i>{</i> |
| postfix [j++] = s[top]; |
| } |
| |

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| $postfix[i] = \langle o';$ |
|-----------------------------------------------|
| } |
| |
| void main () |
| 1 |
| char infix [20]; |
| char postfix[20]; |
| |
| printf("Enter a valid infix expression:-\n"); |
| scanf("%s", infix); |
| infix_postfix(infix, postfix); |
| printf("The postfix expression is:-\n"); |
| printf("%s", postfix); |
| |
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