```
1
       #include<stdio.h>
 2
       #include<string.h>
 3
       #includecess.h>
 4
       int F(char symbol)
 5
     <del>-</del> (
 6
           switch (symbol)
 7
 8
             case '+':
 9
             case '-': return 2;
10
             case ''':
11
             case '/': return 4;
12
             case '^':
13
             case '$': return 5;
14
             case '(': return 0;
15
             case '#': return -1;
16
             default: return 8;
17
18
19
       int G(char symbol)
20
     ₽{
21
         switch (symbol)
     \dot{-}
22
23
             case '+':
24
             case '-': return 1;
25
             case ' ' :
26
             case '/': return 3;
27
             case ' ':
28
             case '$': return 6;
29
             case '(': return 9;
30
             case ')': return 0;
31
             default: return 7:
32
33
```

```
int top, i, j;
  char s[30], symbol;
  top=-1;
  s[++top]='#';
  j=0;
  for (i=0; i<strlen (infix); i++)
    symbol=infix[i];
    while (F(s[top])>G(symbol))
     postfix[j]=s[top--];
     j++;
    if(F(s[top])!=G(symbol))
      s[++top]=symbol;
      else
        top--;
  while (s[top] !='#')
    postfix[j++]=s[top--];
  postfix[j]='\0';
void main()
 char infix[20],postfix[20];
 printf("Enter the valid infix expression:\n");
 scanf("%s", infix);
 infix postfix (infix, postfix);
printf("The postfix expression is:\n");
printf("%s\n", postfix);
```

```
C:\Users\pbcha\Desktop\DSLabWeek3Labpro.exe

Enter the valid infix expression:

((A+B)*C-D)*E

The postfix expression is:

AB+C*D-E*

Process returned 0 (0x0) execution time : 12.988 s
```

Press any key to continue.