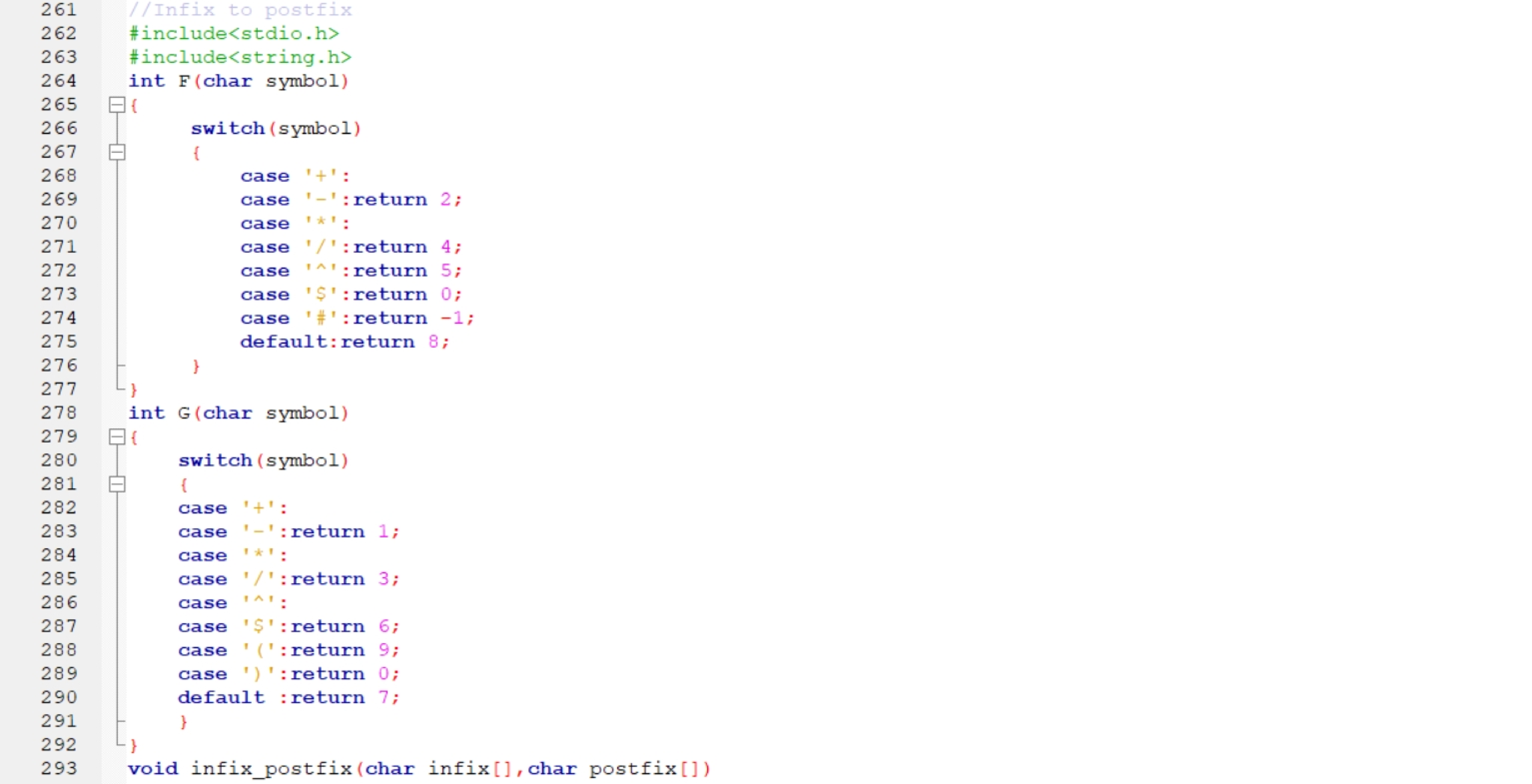
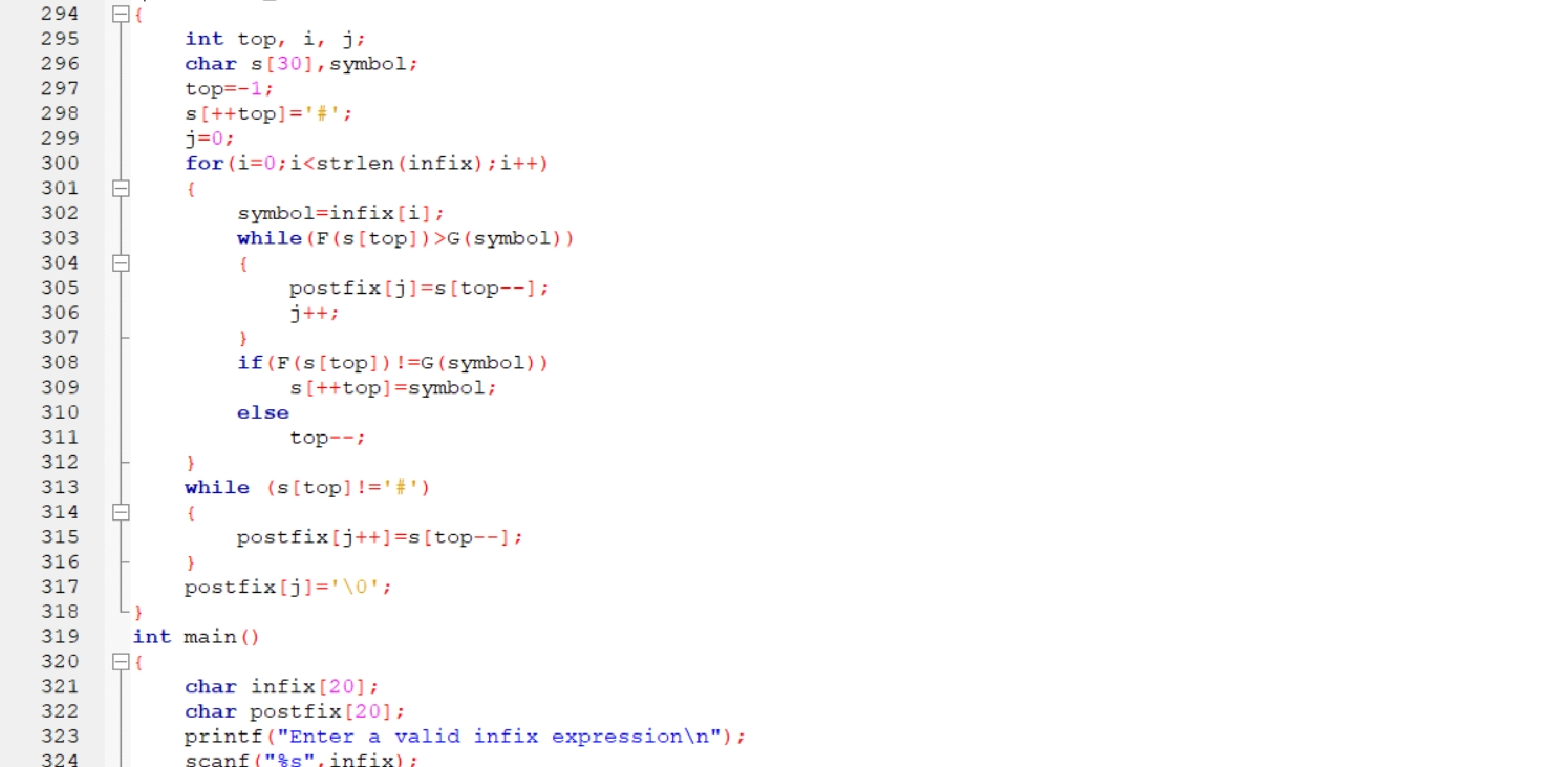
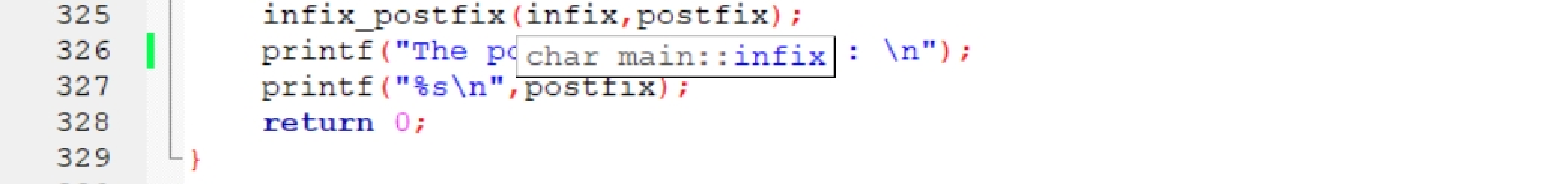


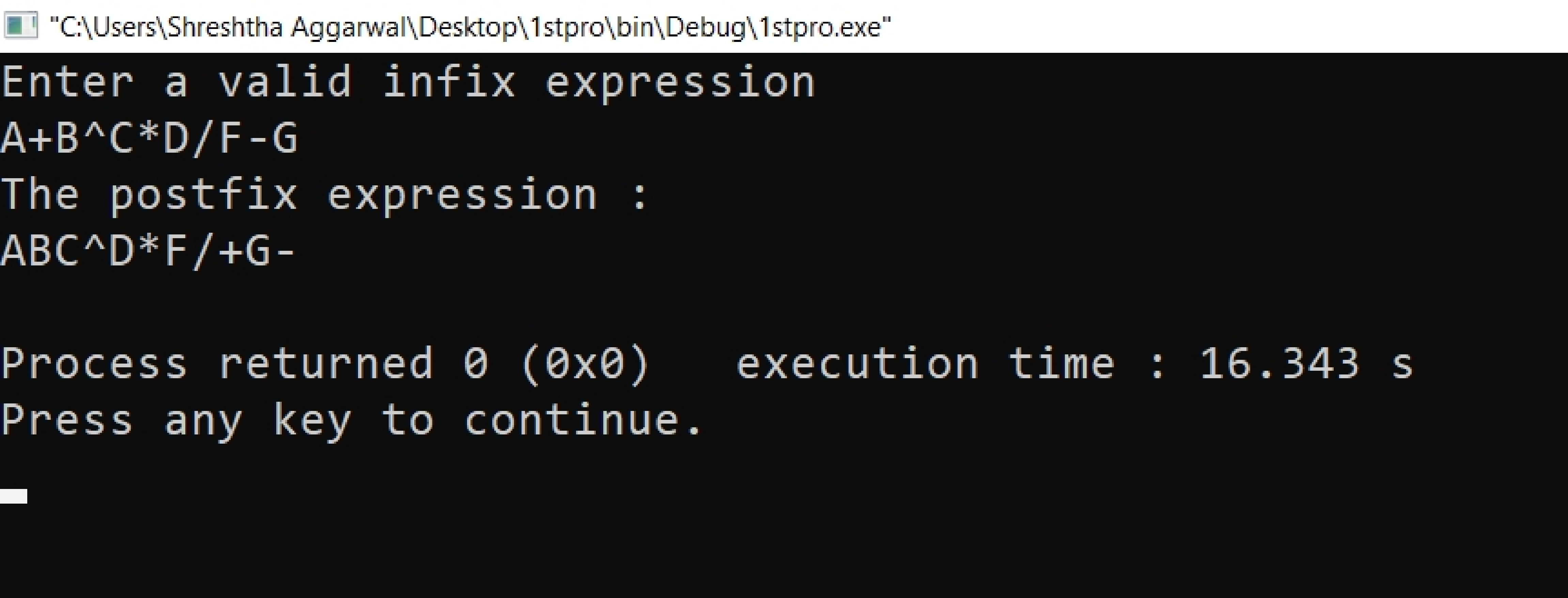
```c
//Infix to postfix
#include<stdio.h>
#include<string.h>
int F(char symbol)
{
     switch(symbol)
     {
         case '+':
         case '-':return 2;
         case '*':
         case '/':return 4;
         case '^':return 5;
         case '$':return 0;
         case '#':return -1;
         default:return 8;
     }
}
int G(char symbol)
{
    switch(symbol)
    {
    case '+':
    case '-':return 1;
    case '*':
    case '/':return 3;
    case '^':
    case '$':return 6;
    case '(':return 9;
    case ')':return 0;
    default :return 7;
    }
}
void infix_postfix(char infix[],char postfix[])
```



```
{
    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';
}
int main()
{
    char infix[20];
    char postfix[20];
    printf("Enter a valid infix expression\n");
    scanf("%s",infix);
```



```
    infix_postfix(infix,postfix);
    printf("The po                : \n");
    printf("%s\n",postfix);
    return 0;
}
```



"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"

```
Enter a valid infix expression
A+B^C*D/F-G
The postfix expression :
ABC^D*F/+G-


Process returned 0 (0x0)   execution time : 16.343 s
Press any key to continue.
```