Write C-program to convert infix to postfix expression

```
#include<stdio.h>
#include<string.h>
#include<conio.h>
int F(char symbol)
{
 switch(symbol)
  {
   case '+':
   case '-': return 2;
   case '*':
   case '/': return 4;
   case '^':
   case '$': return 5;
   case '(': return 0;
   case '#': return -1;
   default : return 8;
  }
}
  int G(char symbol)
{
  switch(symbol)
  {
   case '+':
   case '-': return 1;
   case '*':
   case '/': return 3;
   case '^':
   case '$': return 6;
   case '(': return 9;
   case ')': return 0;
```

```
    default: return 7;
  }
}
void infix-postfix (char infix [], char postfix[])
{ int top, i, j=0;
  chars[30], symbol;
  top = -1;
  s[++top] = '#';
  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];
  char postfix[20];
  printf("Enter valid infix expressions \n");
  scanf("%s", &infix);
  infix_postfix(infix, postfix);
  printf("the postfix expression is \n");
  printf("%s\n", postfix);
  getch();
}
}
```