```
#include <stdio.h>
#include <string.h>

int F(char sym)
{ switch (sym)
{ case '+':
  case '-': return 2;
  case '*':
  case '/': return 4;
  case '^';
  case '$': return 5;
  case '(': return 0;
  case '#': return -1;
  default: return 8;
  }}

int G(char sym)
{ switch (sym)
  { 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], sym;
top = -1
S[++top] = '#';
j = 0
for (i=0; i<strlen(infix); i++)
{ sym = infix[i];
while(F(s[top]) >= G(sym))
{
  postfix[j++] = s[top--];
  j++; }

if(F(s[top]) != G(sym))
  s[++top] = sym;
else
  top--;
}//close for

while (s[top] != '#')
{ postfix[j++] = S[top--]; }

postfix[j] = '\0';
}

void main()
{ char infix[20];
  char postfix[20];
printf("Enter an infix expression \n");
scanf("%s", infix);
infix_postfix(infix, postfix);
printf("The postfix expression");
printf("%s", postfix);
}
```