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CODE:
#include<stdio.h>
#include<string.h>
int F(char symbol){
     switch(symbol){
          case '+':
          case '-':return 2;
          case '*':
          case '/':return 4;
          case '^':
          case '$':return 5;
          case '(':return 0;
          case '#':return -1;
          default :return 8;
     }
}
int G(char symbol)
{
     switch (symbol)
     case '+':
     case '-':
          return 1;
     case '*':
     case '/':
          return 3;
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case '^':
     case '$':
           return 6;
     case '(':
           return 9;
     case ')':
           return 0;
     default:
           return 7;
     }
}
void infix_postfix(char infix[], char postfix[]){
     int top, j, i;
     char s[30], symbol;
     top = -1;
     s[++top] = '#';
     j = 0;
     for(i = 0;i<strlen(infix);i++){</pre>
           symbol = infix[i];
           while(F(s[top]) > G(symbol)){
                postfix[j] = s[top--];
                 j++;
           }
           if (F(s[top]) != G(symbol)){
                s[++top] = symbol;
           }
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else{
               top--;
          }
    }
    while(s[top] != '#'){
          postfix[j++] = s[top--];
     }
     postfix[j] = '\0';
     printf("postfix expression:\n%s",postfix);
}
int main(){
     char infix[20], postfix[20];
     printf("Enter the infix expression:\n");
     scanf("%s",&infix);
     infix_postfix(infix, postfix);
     return 0;
}
OUTPUT:
a+b* (c^d-e) ^ (f+g*h) -i
postfix expression:
abcd^e-fgh*+^*+i-
```