#include<stdio.h>  
#include<string.h>  
#include<stdlib.h>  
int isOperator(char c)  
{  
if(c=='+'||c=='-'||c=='\*'||c=='/')  
{  
return 1;  
}  
else  
{  
return 0;  
}  
  
}  
void moveOperator(char \*p)  
{  
while(\*p!='\0')  
{  
\*p=\*(p+1);  
p++;  
}  
}  
void moveOperand(float \*p,float \*end)  
{  
while(p!=end)  
{  
\*p=\*(p+1);  
p++;  
}  
}  
int main()  
{  
printf("请输入一个式子，包含+ - \* /\n");  
char strEXP[100];  
scanf("%s",strEXP);  
char operators[100]={'\0'};  
float operands[100];  
int operatorsIndex=0;  
for(int i=0;i<strlen(strEXP);i++)  
{  
if(isOperator(strEXP[i]))  
{  
operators[operatorsIndex]=strEXP[i];  
operatorsIndex++;  
}  
}  
int operandsIndex=0;  
for(int i=0;i<strlen(strEXP);i++)  
{  
char temp[100]={'\0'};  
int tempIndex=0;  
while(!isOperator(strEXP[i]))  
{  
temp[tempIndex]=strEXP[i];  
i++;  
tempIndex++;  
}  
float floatV = atof(temp);  
operands[operandsIndex++]=floatV;  
}  
char \*poperator=operators;  
float \*poperand=operands;  
while(\*poperator!='\0')  
{  
if(\*poperator=='\*')  
{  
float leftOperand = \*poperand;  
float rightOperand = \*(poperand+1);  
float res = leftOperand \* rightOperand;  
\*poperand = res;  
moveOperator(poperator);  
moveOperand(poperand+1,&operands[operandsIndex--]);  
}  
else if(\*poperator=='/')  
{  
float leftOperand = \*poperand;  
float rightOperand = \*(poperand+1);  
float res = leftOperand / rightOperand;  
\*poperand = res;  
moveOperator(poperator);  
moveOperand(poperand+1,&operands[operandsIndex--]);  
}  
else  
{  
poperator++;  
poperand++;  
}  
}  
poperator=operators;  
poperand=operands;  
while(\*poperator!='\0')  
{  
if(\*poperator=='+')  
{  
float leftOperand = \*poperand;  
float rightOperand = \*(poperand+1);  
float res = leftOperand + rightOperand;  
\*poperand = res;  
moveOperator(poperator);  
moveOperand(poperand+1,&operands[operandsIndex--]);  
}  
else if(\*poperator=='-')  
{  
float leftOperand = \*poperand;  
float rightOperand = \*(poperand+1);  
float res = leftOperand - rightOperand;  
\*poperand = res;  
moveOperator(poperator);  
moveOperand(poperand+1,&operands[operandsIndex--]);  
}  
else  
{  
poperator++;  
poperand++;  
}  
}  
printf("答案为：%0.2f\n",operands[0]);  
return 0;  
}