CODE

#include <stdio.h>

#include <stdlib.h>

#include <ctype.h>

const char \*p;

double E();

double T();

double F();

void next() { while (\*p==' ') p++; }

double F() {

next();

if (\*p == '(') { p++; double v = E(); if (\*p==')') p++; return v; }

if (\*p == '-') { p++; return -F(); }

if (isdigit(\*p)) { double v=0; while(isdigit(\*p)) v=v\*10+(\*p++-'0'); return v; }

printf("Syntax error\n"); exit(1);

}

double T() {

double v = F();

for (;;) {

next();

if (p=='') { p++; v \*= F(); }

else if (\*p=='/') { p++; v /= F(); }

else return v;

}

}

double E() {

double v = T();

for (;;) {

next();

if (\*p=='+') { p++; v += T(); }

else if (\*p=='-') { p++; v -= T(); }

else return v;

}

}

int main() {

char expr[100];

printf("Enter expression: ");

fgets(expr, sizeof(expr), stdin);

p = expr;

double result = E();

printf("= %.2f\n", result);

return 0;

}

SCREENSHOTS

