%{

#include <stdio.h>

#include <stdlib.h>

int num1 = -1, num2 = -1;

char op;

%}

%%

[0-9]+ {

if(num1 == -1)

num1 = atoi(yytext);

else

num2 = atoi(yytext);

}

"+"|"-"|"\*"|"/" { op = yytext[0]; }

[ \t\n] ; // ignore spaces and newlines

. { printf("Invalid character: %s\n", yytext); }

%%

int yywrap(void) { return 1; }

int main() {

printf("Enter an expression (e.g., 12+5): ");

yylex(); // process input

if(num1 != -1 && num2 != -1) {

switch(op) {

case '+': printf("Result = %d\n", num1 + num2); break;

case '-': printf("Result = %d\n", num1 - num2); break;

case '\*': printf("Result = %d\n", num1 \* num2); break;

case '/':

if(num2 != 0) printf("Result = %d\n", num1 / num2);

else printf("Error: Division by zero!\n");

break;

default: printf("Invalid operator\n");

}

} else {

printf("Invalid expression\n");

}

return 0;

}

