

```

%{
#include <ctype.h>
#include <stdio.h>
#define YYSTYPE double /* double type for YACC stack */
void yyerror(char *);
int yylex();
%}

%token NUMBER

%%

prog: expr '\n' prog { printf("VALOR %g\n", $1); }
    | %empty;
expr: expr '+' term { $$ = $1 + $3; }
    | expr '-' term { $$ = $1 - $3; }
    | term { $$ = $1; };
term: term '*' NUMBER { $$ = $1 * $3; }
    | term '/' NUMBER { $$ = $1 / $3; }
    | NUMBER;

%%

void yyerror(char *mgs)
{
    printf("error: %s",mgs);
}

int yylex()
{
    double t;
    int c;

    while ((c = getchar()) == ' ');

    if (c == '.' || isdigit(c)) {
        ungetc(c, stdin);
        scanf("%lf", &t);
        yylval = t; // pasando valor a la pila
        return NUMBER;
    }

    return c;
}

int main()
{
    return yyparse();
}

```

```
└─ ⚙ 13s918ms $ ./a.out  
2+3*2-8/2  
VALOR 4
```

```
└─ ⚙ 20s901ms $ ./a.out  
10.34 - 3 * 56 / 12  
VALOR -3.66
```

```
└─ ⚙ 30s841ms $ ./a.out  
37.67 * 378.2/ .34 +34-22.5  
VALOR 41913.8
```

```
└─ ⚙ 27s794ms $ ./a.out  
12/45*3-45+67/3*25  
VALOR 514.133
```

```
└─ [ wensespl@LAPTOP-1D2RDU00 ~/USUARIO/Desktop/Compiladores/semana7]  
$ ./a.out  
45*23-34/2.4*45  
VALOR 397.5
```

```
└─ [ wensespl@LAPTOP-1D2RDU00 ~/USUARIO/Desktop/Compiladores/semana7]  
└─ ⚙ 20s12ms $ ./a.out  
34/.45+34*2  
VALOR 143.556
```