

Kalkulator bez akcija

```

/* Jednostavni kalkulator */

%{
    #include "calc1.tab.h"
}%

%%

[ \t]+
[0-9]+    { yylval = atoi(yytext); return NUMBER; }
"+"      { return PLUS; }
"-"      { return MINUS; }
\n       { return NEWLINE; }
.        { printf("Unknown char %c\n", *yytext); }
}

%{
    #include <ctype.h>
    #include <stdio.h>
    int yyparse(void);
    int yylex(void);
}%

%token NUMBER
%token PLUS
%token MINUS
%token NEWLINE

%%

lines
:
| lines NEWLINE
| lines e NEWLINE
;

e
: e PLUS NUMBER
| e MINUS NUMBER
| NUMBER
;

%%

int main() {
    return yyparse();
}

```

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```
int yyerror(char *s) {
    fprintf(stderr, "%s\n", s);
    return 0;
}
```

Kalkulator sa akcijama

```
%{
    #include <ctype.h>
    #include <stdio.h>
    int yyparse(void);
    int yylex(void);
}%

%token NUMBER
%token PLUS
%token MINUS
%token NEWLINE

%%

lines
:
| lines NEWLINE
| lines e NEWLINE { printf("%d\n", $2); }
;

e
: e PLUS NUMBER { $$ = $1 + $3; }
| e MINUS NUMBER { $$ = $1 - $3; }
| NUMBER { $$ = $1; }
;

%%

int main() {
    return yyparse();
}

int yyerror(char *s) {
    fprintf(stderr, "%s\n", s);
    return 0;
}
```

Rukovanje greškama

```

%{
    #include <ctype.h>
    #include <stdio.h>
    int yyparse(void);
    int yylex(void);
}%

%token NUMBER
%token PLUS
%token MINUS
%token NEWLINE

%%

lines
: /* prazna linija */
| lines NEWLINE
| lines e NEWLINE { printf("%d\n", $2); }
| lines error NEWLINE { yyerror("reenter last line:\n");
                        yyerrok; }
;

e
: e PLUS NUMBER { $$ = $1 + $3; }
| e MINUS NUMBER { $$ = $1 - $3; }
| NUMBER { $$ = $1; }
;

%%

int main() {
    return yyparse();
}

int yyerror(char *s) {
    fprintf(stderr, "%s\n", s);
    return 0;
}

```

Kompletan kalkulator - prioritet operatora

```

%{
    #include <ctype.h>
    #include <stdio.h>
    int yyparse(void);
    int yylex(void);
}%

```

```

%token NUMBER
%token PLUS
%token MINUS
%token MULTIPLY
%token DIVIDE
%token NEWLINE

%left PLUS MINUS
%left MULTIPLY DIVIDE
%right UMINUS

%%

lines
: /* prazna linija */
| lines NEWLINE
| lines e NEWLINE      { printf("%d\n", $2); }
;

e
: e PLUS e             { $$ = $1 + $3; }
| e MINUS e            { $$ = $1 - $3; }
| e MULTIPLY e         { $$ = $1 * $3; }
| e DIVIDE e           { $$ = $1 / $3; }
| MINUS e %prec UMINUS { $$ = -$2; }
| NUMBER               { $$ = $1; }
;

%%

int main() {
    return yyparse();
}

int yyerror(char *s) {
    fprintf(stderr, "%s\n", s);
    return 0;
}

```
