RabbitLang documentation

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Code
%{
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int current_line = 1;
%}
%option noyywrap
IDENTIFIER
                       \^[a-zA-Z_][a-zA-Z0-9_]*
                               0|[+|-]?[1-9][0-9]*([.][0-9]*)?|[+|-]?0[.][0-9]*
NUMBER_CONST
                       [\"][a-zA-Z0-9]+[\"]
STRING_CONST
CHAR_CONST
                       [\'][a-zA-Z0-9][\']
%%
"if"|"print"|"inputInt"|"inputString"|"else"|"elseif"|"for"|"--
>"|"while"|"set_nth"|"get_nth"|"False"|"True"|"len" {printf("Reserved word: %s\n", yytext);}
"+"|"-"|"*"|"/"|"="|">"|">="|"<"|"<="|"=="|"not"|"and"|"or"
        {printf("Operator: %s\n", yytext);}
"\n"|"("|")"|"\["|"\]"|"#"|","|"\|"
        {printf("Separator: %s\n", yytext == "\n" ? "\\n" : yytext);}
{IDENTIFIER}
                       {printf("Identifier: %s\n", yytext);}
{NUMBER_CONST}
                               {printf("Number: %s\n", yytext);}
{STRING_CONST}
                               {printf("String: %s\n", yytext);}
```

```
{CHAR_CONST}
                         {printf("Character: %s\n", yytext);}
[ \t]+
       {}
[\n]+
        {current_line++;}
[0-9][a-zA-Z0-9_]*
                                                                   {printf("Illegal identifier at line %d\n",
current_line);}
[+|-]0
                                                                   {printf("Illegal numeric constant at line
%d\n", current_line);}
                                                                   {printf("Illegal numeric constant at line
[+|-]?[0][0-9]*([.][0-9]*)?
%d\n", current_line);}
[\'][a-zA-Z0-9]{2,}[\']|[\'][a-zA-Z0-9][a-zA-Z0-9][\']
                                                           {printf("Illegal character constant at line %d\n",
current_line);}
[\"][a-zA-Z0-9_]+|[a-zA-Z0-9_]+[\"]
                                                                   {printf("Illegal string constant at line
%d\n", current_line);}
%%
void main(argc, argv)
int argc;
char** argv;
{
if (argc > 1)
  FILE *file;
  file = fopen(argv[1], "r");
  if (!file)
  {
    fprintf(stderr, "Could not open file %s\n", argv[1]);
    exit(1);
```

```
}

yyin = file;

yylex();

Documentation

To run the project, type:

flex scanner.!

gcc lex.yy.c -o lex
./lex <input_file> (where input_file is the file with the source code)
```