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%{

/*
* =====
*
* check2.l
*
* Programmer --- Patrick Fischer
* Assignment --- Checkpoint 2
* Due --- 9/22/16
*
* =====
*/

#include <stdio.h>

%}

%%

[\\t ]+                {}

(m|M)(a|A)(i|I)(n|N)  { printf("RWMAIN: %s\\n", yytext); }

(e|E)(x|X)(i|I)(t|T)  { printf("RWEXIT: %s\\n", yytext); }

(i|I)(f|F)             { printf("RWIF: %s\\n", yytext); }

(e|E)(l|L)(s|S)(e|E)   { printf("RWELSE: %s\\n", yytext); }

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(w W)(h H)(i I)(l L)(e E)	{ printf("RWWHILE: %s\n", yytext); }
(c C)(o O)(u U)(n N)(t T)(i I)(n N)(g G)	{ printf("RWCOUNTING: %s\n", yytext); }
(e E)(n N)(d D)	{ printf("RWEND: %s\n", yytext); }
(d D)(a A)(t T)(a A)	{ printf("RWDATA: %s\n", yytext); }
(a A)(l L)(g G)(o O)(r R)(i I)(t T)(h H)(m M)	{ printf("RWALG: %s\n", yytext); }
[-+]?[0-9]+	{ printf("LITINT: %s\n", yytext); }
[-+]?([0-9]*\.[0-9]+ [0-9]+\.)((e E)[-+]?[0-9]+)?	{ printf("LITREAL: %s\n", yytext); }
(i I)(n N)(t T)(e E)(g G)(e E)(r R)	{ printf("RWINT: %s\n", yytext); }
(r R)(e E)(a A)(l L)	{ printf("RWREAL: %s\n", yytext); }
(l L)(i I)(s S)(t T)	{ printf("RWLIST: %s\n", yytext); }
(u U)(p P)(w W)(a A)(r R)(d D)	{ printf("RWUPWARD: %s\n", yytext); }
(d D)(o O)(w W)(n N)(w W)(a A)(r R)(d D)	{ printf("RWDOWNWARD: %s\n", yytext); }
(t T)(o O)	{ printf("RWTO: %s\n", yytext); }
(r R)(e E)(a A)(d D)	{ printf("RWREAD: %s\n", yytext); }
(p P)(r R)(i I)(n N)(t T)	{ printf("RWPRINT: %s\n", yytext); }

<code>\"([^\\""] \\.)*\\"</code>	<code>{ printf("CHARSTRING: %s\n", yytext); }</code>
<code>#.*</code>	<code>{ printf("COMMENT: %s\n", yytext); }</code>
<code>!</code>	<code>{ printf("CARRETURN: %s\n", yytext); }</code>
<code>":="</code>	<code>{ printf("ASSIGN: %s\n", yytext); }</code>
<code>,</code>	<code>{ printf("COMMA: %s\n", yytext); }</code>
<code>","</code>	<code>{ printf("SEMICOLON: %s\n", yytext); }</code>
<code>":"</code>	<code>{ printf("COLON: %s\n", yytext); }</code>
<code>"("</code>	<code>{ printf("LPAREN: %s\n", yytext); }</code>
<code>")"</code>	<code>{ printf("RPAREN: %s\n", yytext); }</code>
<code>"["</code>	<code>{ printf("LBRAK: %s\n", yytext); }</code>
<code>"]"</code>	<code>{ printf("RBRACK: %s\n", yytext); }</code>
<code>"+"</code>	<code>{ printf("ADD: %s\n", yytext); }</code>
<code>"_"</code>	<code>{ printf("MINUS: %s\n", yytext); }</code>
<code>"*"</code>	<code>{ printf("MULT: %s\n", yytext); }</code>
<code>"/"</code>	<code>{ printf("DIV: %s\n", yytext); }</code>

"<"	{ printf("LESS: %s\n", yytext); }
">"	{ printf("GREATER: %s\n", yytext); }
"<="	{ printf("LESSEQU: %s\n", yytext); }
">+"	{ printf("GREATEQU: %s\n", yytext); }
"="	{ printf("EQUAL: %s\n", yytext); }
"<>"	{ printf("NOTEQUAL: %s\n", yytext); }
"&"	{ printf("AND: %s\n", yytext); }
" "	{ printf("OR: %s\n", yytext); }
"~"	{ printf("NOT: %s\n", yytext); }
("[a-zA-Z][a-zA-Z0-9]*")	{ printf("VAR: %s\n", yytext); }
." \n	{ }
%%	
int main()	
{	
yylex();	
return 0;	
}	