

Guðjón Kári Jónsson

/**

JFlex lesgreinir fyrir einfaldar formúlur.

Höfundur: Snorri Agnarsson

*/

%%

%public

%class ExprLexer

%unicode

%{

private String lexeme;

public String getLexeme() { return lexeme; }

static public final int ERR = -1;

static public final int NUM = 1;

static public final int EOF = 0;

static public final int LITERAL = -2;

static public final int DECL = -3;

static public final int NAME = -4;

static public final int WHITESPACE = -5;

static public final int OPERATOR = -7;

static public final int DOT = -6;

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%}

/* Reglulegar skilgreiningar */

DIGIT=[0-9]

FLOAT={DIGIT}+(\.{DIGIT}+([eE][+-]?{DIGIT}+)?)?

OPERATOR=[+|\-|*|/|<|>|\&|!|\||]+

_STRING=\"([^\\"\\|\\b|\\t|\\n|\\f|\\r|\\\\\"|\\\\'|\\\\\\\\|\\\\\\\\[0-3][0-7][0-7])|\\\\[0-7][0-7]|\\\\[0-7])*\"

_CHAR='([^\\"\\|\\b|\\t|\\n|\\f|\\r|\\\\\"|\\\\'|\\\\\\\\|\\\\\\\\[0-3][0-7][0-7])|\\\\[0-7][0-7]|\\\\[0-7])'

_NAME=([:letter:]|[\+\\-*/!%&=><\\.^~&|?]|{DIGIT})+

_SINGLESYMBOL=[{};\\[\\(\\)\\.]

_BOOLEAN=null|true|false;

_IGNORED=[\\r|\\n|\\t]+

%%

{FLOAT} {

return new Yytoken(NUM,yytext());

}

{_CHAR} | {_STRING} | {_BOOLEAN} {

return new Yytoken(LITERAL,yytext());

}

{OPERATOR} {

return new Yytoken(OPERATOR,yytext());

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```
}
```

```
"var" {
```

```
    return new Ytoken(DECL, yytext());
```

```
}
```

```
{_NAME} {
```

```
    return new Ytoken(NAME,yytext());
```

```
}
```

```
{_SINGLESYMBOL} {
```

```
    return new Ytoken(yycharat(0), yytext());
```

```
}
```

```
{_IGNORED} {
```

```
}
```

```
. {
```

```
    return new Ytoken(ERR);
```

```
}
```