

HW4 - Lenguajes

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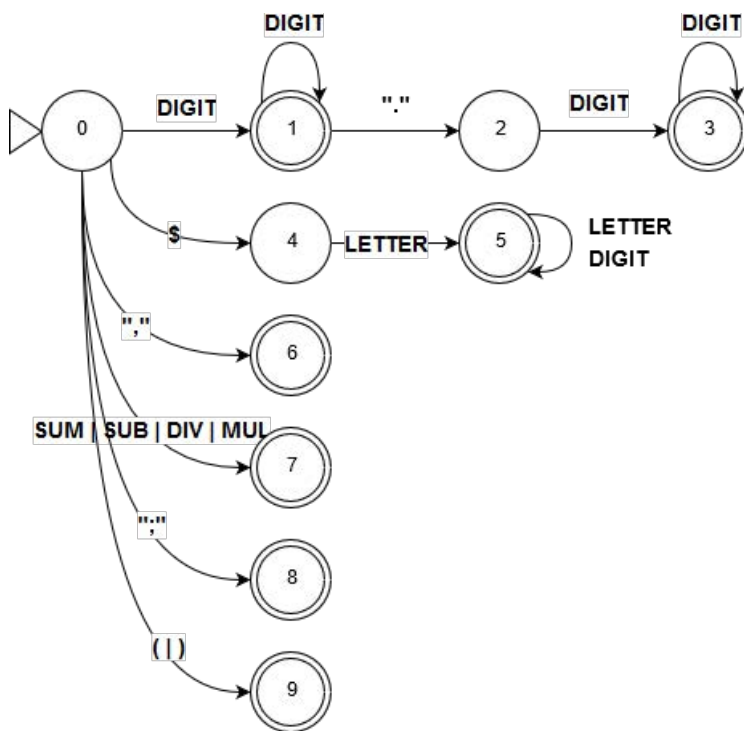
Main Class: HW4.java

Special notes: The lexical analysis expects the elements to be separated by spaces. A test file is provided `test.in`.

```
Correct: SUM ( 3 , 4 ) ;  
Incorrect: SUM(3, 4);
```

Lexical Analyzer

Automaton



Grammar

```
<stmt> → <expression>EOI
<expression> → <func> | <factor>
<func> → FUNCTION PARENS <param> PARAMETER_SEP <param> PARENS
<param> → <func> | <factor>
<factor> → VARIABLE | INTEGER | DOUBLE
```

Parser Implementation

Functions:

- statement()
- expression()
- func()
- factor()
- param()

Matches:

- VARIABLE
- FUNCTION
- PARENS
- INTEGER
- DOUBLE
- PARAMETER_SEP
- EOI