

Diseño de compiladores

Analizador Léxico

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Expresiones regulares

Se implementó del analizador léxico con expresiones regulares, los siguientes expresiones fueron usadas:

```
(r'[ \s\n\t]+', TokenType.SPACE),  
(r'', TokenType.SPACE),  
(r'#[^\n]*', TokenType.SPACE),  
(r'\$', TokenType.ENDFILE),  
(r'\{', TokenType.SPECIAL),  
(r'\}', TokenType.SPECIAL),  
(r'\[', TokenType.SPECIAL),  
(r'\]', TokenType.SPECIAL),  
(r'\(', TokenType.SPECIAL),  
(r'\)', TokenType.SPECIAL),  
(r'\\*(\*(?!\\)|[^\*])*\*\\', TokenType.COMMENT),  
(r';', TokenType.SPECIAL),  
(r',', TokenType.SPECIAL),  
(r'\+', TokenType.SPECIAL),  
(r'\-', TokenType.SPECIAL),  
(r'\*', TokenType.SPECIAL),  
(r'/', TokenType.SPECIAL),  
(r'<=', TokenType.SPECIAL),  
(r'<', TokenType.SPECIAL),  
(r'>=', TokenType.SPECIAL),  
(r'>', TokenType.SPECIAL),
```

```
(r'==',      TokenType.SPECIAL),
(r'!=',      TokenType.SPECIAL),
(r'=',      TokenType.SPECIAL),
(r'else',    TokenType.RESERVED),
(r'if',      TokenType.RESERVED),
(r'int',     TokenType.RESERVED),
(r'return',  TokenType.RESERVED),
(r'void',    TokenType.RESERVED),
(r'while',   TokenType.RESERVED),
(r'[0-9]+[a-zA-Z]+', TokenType.ERROR),
(r'[0-9]+',   TokenType.NUM),
(r'[a-zA-Z_][0-9a-zA-Z_]*', TokenType.ID)]
```

Automata

