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jminusminus

Class Parser

- java.lang.Object
  - jminusminus.Parser

```
public class Parser
extends Object
```

A recursive descent parser that, given a lexical analyzer (a LookaheadScanner), parses a Java compilation unit (program file), taking tokens from the LookaheadScanner, and produces an abstract syntax tree (AST) for it.

- **Constructor Summary**

Constructors

Constructor and Description
Parser(LookaheadScanner scanner) Construct a parser from the given lexical analyzer.

- **Method Summary**

Methods

Modifier and Type	Method and Description
JCompilationUnit	**compilationUnit**() Parse a compilation unit (a program file) and construct an AST for it.
boolean	**errorHasOccurred**() Has a parser error occurred up to now?

- **Methods inherited from class java.lang.Object**

  `clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

- **Constructor Detail**

  - **Parser**

  `publicParser(LookaheadScannerscanner)`

   Construct a parser from the given lexical analyzer.

  Parameters:
    `scanner` - the lexical analyzer with which tokens are scanned.

- **Method Detail**

  - **errorHasOccurred**

  `publicbooleanerrorHasOccurred()`

   Has a parser error occurred up to now?

  Returns:
    true or false.

  - **compilationUnit**

  `publicJCompilationUnitcompilationUnit()`

  Parse a compilation unit (a program file) and construct an AST for it. After constructing the Parser, this is the entry point.

```
compilationUnit ::= [PACKAGE qualifiedIdentifier SEMI]
                    {IMPORT  qualifiedIdentifier SEMI}
                    {typeDeclaration}
                    EOF
```

  Returns:
    an AST for a compilationUnit.