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jminusminus

Class JVariableDeclaration

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JVariableDeclaration

```
class JVariableDeclaration
extends JStatement
```

The AST node for a local variable declaration. Local variables are declared by analyze(), which also re-writes any initializations as assignment statements, in turn generated by codegen().

- **Field Summary**

- **Fields inherited from class jminusminus.JAST**

  compilationUnit, line

- **Constructor Summary**

  Constructors

  Constructor and Description

  JVariableDeclaration(int line, ArrayList<String> mods, ArrayList<JVariableDeclarator> decls)
  Construct an AST node for a variable declaration given the line number, modifiers, and the variable declarators.

- **Method Summary**

  Methods

Modifier and Type	Method and Description
`JStatement`	**`analyze`**`(Context context)` We declare the variable(s).
`void`	**`codegen`**`(CLEmitter output)` Local variable initializations (rewritten as assignments in analyze()) are generated here.
`ArrayList<String>`	**`mods`**`()` Return the list of modifiers.
`void`	**`writeToStdOut`**`(PrettyPrinter p)` Write the information pertaining to this AST to STDOUT.

- **Methods inherited from class jminusminus.JAST**

  `line`, `partialCodegen`

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

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

- **Constructor Detail**

  - **JVariableDeclaration**

```
public JVariableDeclaration(int line,
                            ArrayList<String> mods,
                            ArrayList<JVariableDeclarator> decls)
```

  Construct an AST node for a variable declaration given the line number, modifiers, and the variable declarators.

  Parameters:

  `line` - line in which the variable declaration occurs in the source file.
  `mods` - modifiers.
  `decls` - variable declarators.

- **Method Detail**

  - **mods**

```
public ArrayList<String> mods()
```

  Return the list of modifiers.

  Returns:

  list of modifiers.

  - **analyze**

```
public JStatement analyze(Context context)
```

  We declare the variable(s). Initializations are rewritten as assignment statements.

  Specified by:

  `analyze` in class `JAST`

  Parameters:

  `context` - context in which names are resolved.

  Returns:

the analyzed (and possibly rewritten) AST subtree.

- **codegen**

```
publicvoidcodegen(CLEmitteroutput)
```

Local variable initializations (rewritten as assignments in analyze()) are generated here.

Specified by:
 codegen in class JAST

Parameters:
 output - the code emitter (basically an abstraction for producing the .class file).

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

Description copied from class: JAST

Write the information pertaining to this AST to STDOUT.

Specified by:
 writeToStdOut in class JAST

Parameters:
 p - for pretty printing with indentation.