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jminusminus

Class JBlock

- [java.lang.Object](#)
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```
class JBlock
extends JStatement
```

The AST node for a block, which delimits a nested level of scope.

- **Field Summary**
- **Fields inherited from class jminusminus.JAST**
- **Constructor Summary**

Constructors

Constructor and Description

```
JBlock(int line, ArrayList<JStatement> statements)
```

Construct an AST node for a block given its line number, and the list of statements forming the block body.

- **Method Summary**

Methods

Modifier and Type

Method and Description

| | |
|--|---|
| <code>JBlock</code> | <code>analyze</code> (<code>Context</code> context) Analyzing a block consists of creating a new nested context for that block and analyzing each of its statements within that context. |
| <code>void</code> | <code>codegen</code> (<code>CLEmitter</code> output) Generating code for a block consists of generating code for each of its statements. |
| <code>ArrayList<JStatement></code> | <code>statements</code> () Return the list of statements comprising the block. |
| <code>void</code> | <code>writeToStdOut</code> (<code>PrettyPrinter</code> 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**

- **`JBlock`**

```
public JBlock(int line,
              ArrayList<JStatement> statements)
```

Construct an AST node for a block given its line number, and the list of statements forming the block body.

Parameters:

`line` - line in which the block occurs in the source file.
`statements` - list of statements forming the block body.

- **Method Detail**

- **`statements`**

```
public ArrayList<JStatement> statements()
```

Return the list of statements comprising the block.

Returns:

list of statements.

- **`analyze`**

```
public JBlock analyze(Context context)
```

Analyzing a block consists of creating a new nested context for that block and analyzing each of its statements within that context.

Specified by:

`analyze` in class `JAST`

Parameters:

`context` - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

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- **codegen**

```
public void codegen(CLEmitter output)
```

Generating code for a block consists of generating code for each of its statements.

Specified by:

`codegen` in class `JAST`

Parameters:

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

- **writeToStdOut**

```
public void writeToStdOut(PrettyPrinter p)
```

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.

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