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jminusminus

Class JIfStatement

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

The AST node for an if-statement.

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

Constructors

Constructor and Description

```
JIfStatement(int line, JExpression condition,
JStatement thenPart, JStatement elsePart)
```

Construct an AST node for an if-statement given its line number, the test expression, the consequent, and the alternate.

- **Method Summary**

Methods

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<code>JStatement</code>	<code>analyze</code> (<code>Context</code> context) Analyzing the if-statement means analyzing its components and checking that the test is boolean.
<code>void</code>	<code>codegen</code> (<code>CLEmitter</code> output) Code generation for an if-statement.
<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**

- **`JIfStatement`**

```
publicJIfStatement(intline,
                   JExpressioncondition,
                   JStatementthenPart,
                   JStatementelsePart)
```

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Construct an AST node for an if-statement given its line number, the test expression, the consequent, and the alternate.

Parameters:

`line` - line in which the if-statement occurs in the source file.

`condition` - test expression.

`thenPart` - then clause.

`elsePart` - else clause.

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- **Method Detail**

- **`analyze`**

```
publicJStatementanalyze(Contextcontext)
```

Analyzing the if-statement means analyzing its components and checking that the test is boolean.

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)
```

Code generation for an if-statement. We generate code to branch over the consequent if `!test`; the consequent is followed by an unconditional branch over (any) alternate.

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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