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jminusminus

Class JThisConstruction

- [java.lang.Object](#)
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```
class JThisConstruction
extends JExpression
```

The AST node for a this(...) constructor.

- **Field Summary**
- **Fields inherited from class jminusminus.JExpression**
[isStatementExpression](#), [type](#)
- **Fields inherited from class jminusminus.JAST**
[compilationUnit](#), [line](#)
- **Constructor Summary**

Constructors

Modifier

Constructor and Description

```
protected JThisConstruction(int line,
ArrayList<JExpression> arguments)
Construct the AST node for a this(...) constructor given its line
number and arguments.
```

- **Method Summary**

Methods	
Modifier and Type	Method and Description
<code>JExpression</code>	<code>analyze(Context context)</code> Analyzing a this constructor statement involves (1) setting the type, (2) analyzing the actual arguments, (3) checking that this construction statement is properly invoked (as the first statement in another constructor), and (4) finding the appropriate Constructor
<code>void</code>	<code>codegen(CLEmitter output)</code> Code generation involves generating the code for loading the actual arguments onto the stack, and then for invoking this constructor.
<code>void</code>	<code>markProperUseOfConstructor()</code> Used in JConstructorDeclaration to mark this(...) as being properly placed, ie, as the first statement in its body.
<code>void</code>	<code>writeToStdOut(PrettyPrinter p)</code> Write the information pertaining to this AST to STDOUT.

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- Methods inherited from class `jinusminus.JExpression`
`codegen`, `isStatementExpression`, `type`
- Methods inherited from class `jinusminus.JAST`
`line`, `partialCodegen`
- Methods inherited from class `java.lang.Object`
`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

- **Constructor Detail**

- **JThisConstruction**

```
protected JThisConstruction(int line,
                           ArrayList<JExpression> arguments)
```

Construct the AST node for a this(...) constructor given its line number and arguments.

Parameters:

`line` - line in which the constructor occurs in the source file.

`arguments` - the constructor's arguments.

- **Method Detail**

- **markProperUseOfConstructor**

```
public void markProperUseOfConstructor()
```

Used in JConstructorDeclaration to mark this(...) as being properly placed, ie, as the first statement in its body.

- **analyze**

```
public JExpression analyze(Context context)
```

Analyzing a this constructor statement involves (1) setting the type, (2) analyzing the actual arguments, (3) checking that this construction statement is properly invoked (as the first statement in another constructor), and (4) finding the appropriate Constructor

Specified by:

`analyze` in class `JExpression`

Parameters:

`context` - context in which names are resolved.

Returns:

the analyzed (and possibly rewritten) AST subtree.

- **codegen**

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

Code generation involves generating the code for loading the actual arguments onto the stack, and then for invoking this constructor.

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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