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jminusminus

# Class JSuperConstruction

- java.lang.Object
  - jminusminus.JAST
    - jminusminus.JStatement
      - jminusminus.JExpression
        - jminusminus.JSuperConstruction

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```
class JSuperConstruction
extends JExpression
```

The AST node for a super(...) 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 | **JSuperConstruction**(int line, ArrayList<JExpression> arguments)<br>Construct an AST node for a super(...) constructor given its line number and arguments. |

- **Method Summary**

Methods

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

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

codegen, isStatementExpression, type

- **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

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- **Constructor Detail**

  - **JSuperConstruction**

```
protectedJSuperConstruction(intline,
                ArrayList<JExpression>arguments)
```

Construct an AST node for a super(...) 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**

```
publicvoidmarkProperUseOfConstructor()
```

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

  - **analyze**

```
publicJExpressionanalyze(Contextcontext)
```

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

**Specified by:**
`analyze` in class `JExpression`

**Parameters:**
`context` - context in which names are resolved.

**Returns:**
the analyzed (and possibly rewritten) AST subtree.

- **codegen**

```
publicvoidcodegen(CLEmitteroutput)
```

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

**Specified by:**
`codegen` in class `JAST`

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

- **writeToStdOut**

```
publicvoidwriteToStdOut(PrettyPrinterp)
```

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**Description copied from class: JAST**

Write the information pertaining to this AST to STDOUT.

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**Specified by:**
`writeToStdOut` in class `JAST`

**Parameters:**
`p` - for pretty printing with indentation.

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