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- Summary:
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- Detail:
- Field |
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jminusminus

Class JSuper

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

```
 class JSuper
extends JExpression
```

The AST node for a "super" expression. It serves as a target of some field selection or message.

- **Field Summary**

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

  `isStatementExpression, type`

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

  `compilationUnit, line`

- **Constructor Summary**

Constructors

Constructor and Description
`JSuper(int line)` Construct an AST node for a "super" expression given its line number.

- **Method Summary**

Methods

Modifier and Type	Method and Description
`JExpression`	`analyze(Context context)` Analysis involves determining the super class to that in which we are in; this becomes the type.
`void`	`codegen(CLEmitter output)` Load "this" onto the stack (even if we treat it as its super class.
`void`	`writeToStdOut(PrettyPrinter p)` 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`

- **Constructor Detail**

  - **JSuper**

```
publicJSuper(intline)
```

Construct an AST node for a "super" expression given its line number.

Parameters:

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

- **Method Detail**

  - **analyze**

```
publicJExpressionanalyze(Contextcontext)
```

Analysis involves determining the super class to that in which we are in; this becomes the type.

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)
```

Load "this" onto the stack (even if we treat it as its super class.

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.