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jminusminus

## Class AmbiguousName

- `java.lang.Object`
  - `jminusminus.AmbiguousName`

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```
class AmbiguousName
extends Object
```

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Ambiguous names are meant to deal with snippets like

```
x.y.z
a.b.c()
```

Clearly, `z` is a field and `c` is a method. But what about `x.y` and `a.b`? `x` could be a package name and `y` a type, making for a (static) class field selection. Or, `x` could be a local variable and `y` an instance field. The parser cannot know how to parse these. Disambiguating the ambiguity must wait until analysis time. The parser can, with `x.y.z`, treat the `.z` as a field selection, but constructs an `AmbiguousName` object encapsulating the `x.y`. And it can, with `a.b.c()`, treat the `.c()` as a message expression, but constructs an `AmbiguousName` object encapsulating `a.b`. `reclassify()` is called upon in `JFieldSelection.analyze()` and `JMessageExpression.analyze()` to reclassify the components and construct the proper ast, following the rules for names in the Java language Specification (Third Edition), section 6.5.2. In j--, both `x.y` and `a.b` are clearly expressions in these contexts. If inner types were to be introduced, their meaning and their reclassification would necessarily be more complicated.

- **Constructor Summary**

Constructors

**Constructor and Description**

```
AmbiguousName(int line, String name)
```

Construct an encapsulation of the ambiguous portion of a snippet like x.y.z.

- **Method Summary**

Methods

**Modifier and  
Type**

**Method and Description**

<b>JExpression</b>	<b>reclassify</b> (Context context) Reclassify the name according to the rules in the Java Language Specification.
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- **Methods inherited from class java.lang.Object**

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- **Constructor Detail**

- **AmbiguousName**

publicAmbiguousName(intline,  
Stringname)

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Construct an encapsulation of the ambiguous portion of a snippet like x.y.z.

**Parameters:**

line - line in which the ambiguous name occurs in the source file.

name - the ambiguous part.

- **Method Detail**

**reclassify**

publicJExpressionreclassify(Contextcontext)

Reclassify the name according to the rules in the Java Language Specification.

**Parameters:**

context - context in which we look up the component names.

**Returns:**

the properly parsed AST.

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