JavaScript is disabled on your browser.

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jminusminus

Class JClassDeclaration

- · java.lang.Object
 Ansistanment Project Exam Help
 - jminusminus.JClassDeclaration
- All Implemented Interfaces / powcoder.com

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class JClassDeclaration
extends JAST
implements JTypeDecl

A class declaration has a list of modifiers, a name, a super class and a class block; it distinguishes between instance fields and static (class) fields for initialization, and it defines a type. It also introduces its own (class) context.

- Field Summary
- Fields inherited from class jminusminus.JAST

compilationUnit, line

Constructor Summary

Constructors

Constructor and Description

JClassDeclaration(int line, ArrayList<String> mods, String name, Type superType, ArrayList<JMember> classBlock) Construct an AST node for a class declaration given the line number, list of class modifiers, name of the class, its super class type, and the class block.

• Method Summary

	Methods
Modifier and Type	Method and Description
JAST	<pre>analyze(Context context) Perform semantic analysis on the class and all of its members within the given context.</pre>
void	<pre>codegen(CLEmitter output) Generate code for the class declaration.</pre>
void	declareThisType(Context context) Declare this class in the parent (compilation unit) context.
ArrayList <jfielddecl aration></jfielddecl 	<pre>instanceFieldInitializations() The initializations for instance fields (now expressed as assignment statments).</pre>
String	name() Return the class name.
void	<pre>preAnalyze(Context context) Pre-analyze the members of this declaration in the</pre>
Assignment Pr	Return the class' super class type.
Type https://pov	Weoder.com Return the type that this class declaration defines.
void Add WeC	writeToStdOut(PrettyPrinter p) WALE tree now of the fining 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
 - JClassDeclaration

Construct an AST node for a class declaration given the line number, list of class modifiers, name of the class, its super class type, and the class block.

Parameters:

line - line in which the class declaration occurs in the source file.

```
mods - class modifiers.
name - class name.
superType - super class type.
classBlock - class block.
```

Method Detail

name

```
publicStringname()
```

Return the class name.

Specified by:

name in interface JTypeDecl

Returns:

the class name.

superType

publicTypesuperType()

Return the class' super class type.

Specified by:

superType in interface JTypeDecl

Returns:

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publicTypethisType()

https://powcoder.com Return the type that this class declaration defines.

Specified by:

this two in interface JTypeDecloder

the defined type.

• instanceFieldInitializations

publicArrayList<JFieldDeclaration>instanceFieldInitializations()

The initializations for instance fields (now expressed as assignment statments).

Returns:

the field declarations having initializations.

declareThisType

publicvoiddeclareThisType(Contextcontext)

Declare this class in the parent (compilation unit) context.

Specified by:

declareThisType in interface JTypeDecl

Parameters:

context - the parent (compilation unit) context.

preAnalyze

publicvoidpreAnalyze(Contextcontext)

Pre-analyze the members of this declaration in the parent context. Preanalysis extends to the member headers (including method headers) but not into the bodies.

Specified by:

preAnalyze in interface JTypeDecl

Parameters:

context - the parent (compilation unit) context.

analyze

publicJASTanalyze(Contextcontext)

Perform semantic analysis on the class and all of its members within the given context. Analysis includes field initializations and the method bodies.

Specified by:

analyze in class JAST

Parameters:

context - the parent (compilation unit) context. Ignored here.

Returns:

the analyzed (and possibly rewritten) AST subtree.

codegen

publicvoidcodegen(CLEmitteroutput)

Generate code for the class declaration.

Specified by:

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output - the code emitter (basically an abstraction for producing the .class,file).

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publicvoidwriteToStdOut(PrettyPrinterp)

Addio Wood chata pow coder

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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