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jminusminus

Class JThis

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

.

```
class JThis
extends JExpression
```

The AST for a "this" 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

  JThis(int line)
  Construct an AST node for a "this" expression given its line number.

- **Method Summary**

<div align="center">Methods</div>

Modifier and Type	Method and Description
JExpression	**analyze**(Context context) Analysis involves simply determining the type in which we are, since that determines the type of this target.
void	**codegen**(CLEmitter output) Simply generate code to load "this" onto the stack.
void	**writeToStdOut**(PrettyPrinter p) inheritDoc

- **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**

  - **JThis**

  public JThis(int line)

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

  Parameters:
  line - line in which the expression occurs in the source file.

- **Method Detail**

  - **analyze**

  public JExpression analyze(Context context)

  Analysis involves simply determining the type in which we are, since that determines the type of this target.

  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)

  Simply generate code to load "this" onto the stack.

  Specified by:
  codegen in class JAST

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

- **writeToStdOut**

`publicvoidwriteToStdOut(`PrettyPrinter`p)`

inheritDoc

Specified by:
    `writeToStdOut` in class `JAST`

Parameters:
    p - for pretty printing with indentation.