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jminusminus

Class JArrayInitializer

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

```
class JArrayInitializer
extends JExpression
```

The AST node for an array initializer. Basically a list of initializing expressions.

- **Field Summary**

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

  isStatementExpression, type

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

  compilationUnit, line

- **Constructor Summary**

  Constructors

  Constructor and Description

  JArrayInitializer(int line, Type expected, ArrayList<JExpression> initials)
  Construct an AST node for an array initializer given the (expected) array type and initial values.

- **Method Summary**

Methods

Modifier and Type	Method and Description
JExpression	**analyze**(Context context) Analysis of array initializer involves making sure that that the type of the initials is the same as the component type.
void	**codegen**(CLEmitter output) Perform code generation necessary to construct the initializing array and leave it on top of the stack.
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**

  - **JArrayInitializer**

  publicJArrayInitializer(int line,
                Typeexpected,
                ArrayList<JExpression>initials)

  Construct an AST node for an array initializer given the (expected) array type and initial values.

  Parameters:
  line - line in which this array initializer occurs in the source file.
  expected - the type of the array we're initializing.
  initials - initializations.

- **Method Detail**

  - **analyze**

  publicJExpressionanalyze(Contextcontext)

  Analysis of array initializer involves making sure that that the type of the initials is the same as the component type.
  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)
```

Perform code generation necessary to construct the initializing array and leave it on top of the stack.

Specified by:
    codegen in class JAST

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

- **writeToStdOut**

```
public void writeToStdOut(PrettyPrinter p)
```

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.