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jminusminus

## Class Main

- [java.lang.Object](#)
- [jminusminus.Main](#)

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```
public class Main
extends Object
```

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Driver class for j-- compiler using hand-written front-end. This is the main entry point for the compiler. The compiler proceeds as follows: (1) It reads arguments that affects its behavior. (2) It builds a scanner. (3) It builds a parser (using the scanner) and parses the input for producing an abstract syntax tree (AST). (4) It sends the preAnalyze() message to that AST, which recursively descends the tree so far as the member headers for declaring types and members in the symbol table (represented as a string of contexts). (5) It sends the analyze() message to that AST for declaring local variables, and checking and assigning types to expressions. Analysis also sometimes rewrites some of the abstract syntax trees for clarifying the semantics. Analysis does all of this by recursively descending the AST down to its leaves. (6) Finally, it sends a codegen() message to the AST for generating code. Again, codegen() recursively descends the tree, down to its leaves, generating JVM code for producing a .class or .s (SPIM) file for each defined type (class).

- **Constructor Summary**

Constructors

Constructor and Description
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<code>Main()</code>
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- **Method Summary**

Methods

**Modifier and  
Type**

**Method and Description**

static boolean	<b><code>errorHasOccurred()</code></b> Return true if an error occurred during compilation; false otherwise.
static void	<b><code>main(String[] args)</code></b> Entry point.

- **Methods inherited from class `java.lang.Object`**

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

- **Constructor Detail**

- **Main**

`publicMain()`

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Method Detail

- **main**

`public static void main(String[] args)`

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Entry point.

- **errorHasOccurred**

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`public static boolean errorHasOccurred()`

Return true if an error occurred during compilation; false otherwise.

**Returns:**

true or false.

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