Language Processors Lab 5

Note: Read this through *before* logging in.

The goal for this lab is to see the MiniJava typechecker in operation.

MiniJava typechecker

The MiniJava symbol table builder and typechecker is at `/soi/sw/courses/daveb/IN2009/minijava/chap5`.
`README` files in each directory explain the basic structure and how to compile and run it. Move to
where you want to do your work and copy it with:

```
cp -R /soi/sw/courses/daveb/IN2009/minijava/chap5 .
```

Compile with:

```
module add java soi javacc/3.2
javacc minijava.jj
javac Main.java
```

and run with:

```
java Main filename
```

where `filename` is a file containing a MiniJava program (eg one of those from the `minijava/programs`
directory). The output is a pretty-printed version of the program, and any error messages resulting
from the typechecking.

The programs I've supplied contain no type errors so you won't see any error messages from
them. You should now create some of your own test program files that contain simple errors that
should be detected by the symbol table builder and type checker, and try them out.

Then read the slides from Session 5 and the visitor programs and try to understand how the
symbol table is built and how the typechecker works.