CS 565 Out: November 11, 1997
Jens Palsberg Due: November 25, 1997

Term Project : Java Analyzer

The goal of the project is to write a Java Analyzer. The Java Analyzer enables programmers to omit type annotations in Java programs. The Java Analyzer inserts the missing type annotations. The Java Analyzer must be written in Java.

The input language is MiniJava (see Lecture 5), and the output language is TypedMiniJava (see Homework 9). The Java Analyzer removes all comments from the input program and it may change the indentation of the input. Otherwise the only change between the input and the output is the inserted type annotations.

The Java Analyzer is called as follows:

```
java Analyze prg
```

where `prg` is a file containing a MiniJava program. One of two things will happen. Either a TypedMiniJava program is produced and placed in the file

```
prg.java
```

or some kind of error message is produced and placed in the file

```
prg.error
```

If the file `prg.java` is produced, then it must be compilable using the compiler `javac`.

Implement the Java Analyzer using the techniques in OOTS Chapter 5, particularly Chapter 5.7.

Submit your program together with a README file which describes the constraints you are using.

Grading will be based solely on what works. We will run your program on some MiniJava programs. If your Java Analyzer works in some cases, and does not work in others, then you will get partial credit.