

322 Compilers: Assignment 2b

A Tiger Type Checker

Your Job

Implement a tiger type checker following the typing rules in `tiger-tr1.pdf` from the course web page. The rules do not cover type declarations, array references, or field selection, so your type checker can assume it will not see any programs that have those features.

As a reference, the course web page now contains an implementation of a tiger type checker and an evaluator.

Note that the file on the course web page cover assignment statements, which were not on the handout in class; your type checker must handle them.

Submission Instructions

Submit a single `zip` file containing your test cases in a directory called `2a` and your code in a directory called `2b`. The `2b` directory should contain a script called `typecheck` that accepts a filename on the command-line and then type checks the tiger program in the file.

Your `zip` file should also contain subdirectories `1a` and `1b` containing either your submission from last time, or a fixed version of it. These will be used when we re-run the parsing test fest.

If the input program type checks with type `int`, `string`, or `void`, it should print the type. If the program fails to typecheck or has some other type, it should print `#illegal`.