

Recursion in F1WAE

CSCI 312 Homework 6

February 8, 2023

Recursion in F1WAE: Add a simple conditional construct, `if0`, which succeeds if the term in the first position evaluates to 0, to the F1WAE language of §4.3. This includes:

- BNF for the complete language
- `define-type` for the complete language
- `parse`, a parser for the complete language
- `subst`, a substitution function
- `interp`, and an interpretation function

Mostly these will be fairly simple modifications to the functions at the end of chapter 4.

Use it: Write some interesting recursive programs in this language, and test them to be sure they work.

Turn in: Put all your files into a folder `csci312hw06yourname`, zip it, and submit to canvas.