

1 Metacircular Evaluator

1. Copy the file `~cs61a/lib/mceval-step1.scm` to your home directory.

Modify the `mc-eval` procedure such that it checks whether the user typed in a list of length at least 2. If so, then `mc-eval` should return the second element of the list. Otherwise, `mc-eval` should just return what the user typed.

2. Copy the file `~cs61a/lib/mceval-step2.scm` to your home directory.

Answer the following question: On line 17 with `((primitive-proc? exp) ...)`, we used `eval`. On line 19 with `(map mc-eval (cdr exp))`, we used `mc-eval`.

Why not use `eval` for line 19?

3. Copy the file `~cs61a/lib/mceval-step3.scm` to your home directory.

Often times in Scheme, we would like to remove a variable name from the world completely. Implement a special form `(remove! var)` in our new Scheme such that it removes the variable and the value associated from the global environment list.

2 Project

Take the rest of the time to work on project 2 with your partner. If you need help, please consult your TA.