Problem Set 4 COMP301 Fall 2019 24.10.2019 17:30 - 18:45

To do these problems, first download the let language files from https://github.com/racket/eopl/tree/master/tests/chapter3/let-lang. You will be modifying some of the code in there. When you are done, you can test the minus operation in tests.rkt from the console and you can test extend-env* in environments.rkt from the console. We will also be using EOPL GUI, which you can find under Course Content on Blackboard. In this problem session, you can try modifying the let language in the EOPL GUI under the languages folder, then in the GUI you can test the minus operator.

Problem 1¹: Extend the Let language by adding a new operator minus that takes one argument n and returns -n. For example, the value of minus $(-(\min s, 9))$ should be 14, which is equal to -((-5) - 9).

Problem 2: Write an extend-env* function, which works identical to extend-env but can take many parameters. Below is an example:

¹EOPL p.72 Exercise 3.6