

Comp 3220, Fall 2017 – Assignment 3

Due Tuesday, December 12, 2017 at 11:59 pm

Programming in Scheme

For this programming assignment, you will be writing two short programs in Scheme. Please submit your two Scheme programs in a zip file and upload them to Canvas under Assignment 3. Name your zip file using the following format: **assignment3_username.zip**.

Question 1

Define a Scheme function named `between` so that `(between I J K)` returns true iff `K` is an integer inclusively between `I` and `J`.

Question 2

Define a Scheme function `p` so that `(p X)` is true if `X` is a list consisting of `n` 1's followed by `n` 0's for some integer `n`.

`(p '(1 1 0 0))` `=> #t`

`(p '(0 1))` `=> #f`

`(p '(1 1 1 0))` `=> #f`