

COSC 251 – Lab #8

Data Structures in LISP

Purpose: Using LISP to mimic basic data structures.

Task: Using LISP in a Box or your favorite LISP IDE, use LISP's list functionality to duplicate stack and queue functionalities. This should include the functions mypush(), mypop(), mytop(), clear() and isEmpty() for a stack and myenqueue(), mydequeue(), myfront(), clear() and isEmpty() for a queue.

If there is an associated function (for instance, pop is already in LISP) you are not allowed to use that function as part of your implementation.

Deliverable: the lisp code that you create. It must be submitted via Blackboard

This lab may be worked on in pairs.

Due: By the start of class Monday. No exceptions. To be turned in via Blackboard.