

# Homework 5:

## Problem 1:

Design an unbounded lock-based  $\text{STACK}\langle T \rangle$  implementation built on a linked list. Prove that it works, clearly formulating invariants.

## Problem 2:

Design an unbounded lock-free  $\text{STACK}\langle T \rangle$  implementation built on a linked list. Prove that it works, clearly formulating invariants. Hint: It does not have to use an elimination array.