## CS 331 — List Zippers Mattox Beckman

## Introduction

Zippers: the benefits of doubly linked lists without the pain! This activity will give you practice writing a few list zipper functions.

## Code

## Questions

- 1. Using zippers, write a search function that takes a list and an element and returns a list with seven items: the three elements before the one you found, the one you found, and the three elements after the one you found.
- 2. Using zippers, write the function (delete-all f xx) that takes a function f and zipper xx and returns a new zipper in which all  $x \in xx$  such that (f x) is true have been deleted. So (delete-all odd xx) will remove all the odd elements from the zipper.