S4.2: Expression Evaluation: Improving Performance CSci 2041:

Advanced Programming Principles

University of Minnesota, Prof. Van Wyk, Spring 2018

Exercise #1:Tail recursive length

What is the tail recursive version of the length function?

Recall

Exercise #2:Using folds

Write a tail recursive version of length using List.fold_left or List.fold_right.

Recall

```
let rec length lst = match lst with
| [] -> 0
| _::xs -> 1 + length xs
```

Exercise #3:Fibonacci numbers

What is the tail recursive version of the fib function?