

Functional Programming

Exercises Week 9

(for December 9, 2016)

1. Read Chapter 7 of the lecture notes.
2. Exercise 7.1
3. Exercise 7.2
4. Exercise 7.7
5. Define a function that splits a list into segments of given length, for example:

```
split 2 [1; 2; 3; 4; 5] = [[1; 2]; [3; 4]; [5]]
split 2 [] = []
```

6. Give a tail recursive version of `concat`. Recall that `concat` is defined as follows:

```
let rec concat = function
| []          -> []
| xs :: xss  -> xs @ concat xss
;;
```