LiU-FP2016, Linköping, 23–27 May 2016 Problem Set 3: Purely Functional Data Structures Henrik Nilsson

Choose 2 of the following:

- 1. Write a function drop :: Int -> RList a -> RList a that deletes the first n elements for a binary random-access list. Your function should run in O(logn) time. (From $Purely\ Functional\ Data\ Structures$ by Chris Okasaki, 1998.)
- 2. Reimplement binary random-access lists using a sparse representation such as:

```
data Tree a = Leaf a | Node Int (Tree a) (Tree a)
type RList a = [Tree a]
```

(From Purely Functional Data Structures by Chris Okasaki, 1998.)

3. Implement drop as specified above for skew binary random-access lists.