Homework Assignment 3

October 20, 2013

1 List splits

Write a function to generate all the possible splits of a finite list. Test your function on the list $[1 . . 5]$ and include the result.

2 List permutations

Using the 'split'-function as a helper function, write a function to generate all the possible permutations of a finite list. Test your function on the list $[1 . . 5]$ and include the result.

3 Permutations of texts

Display 10 permutations of the words in the second sentence of the following text (from the Penn Treebank, WSJ section):

```
ghci 1> let text = "Pierre Vinken , 61 years old , will join the board " ++
            "as a nonexecutive director Nov. 29 .\nMr. Vinken " ++
            "is chairman of Elsevier N.V. , the Dutch publishing group ."
```