## Computational Semantics and Pragmatics 2012

Raquel Fernández - ILLC, University of Amsterdam
Homework \#1b

Select four out of the six exercises below. If you already knew some functional programming before, please do not select the easier exercises. Submit a Haskell file with the code for all exercises you selected. Include a couple of sample runs for each exercise as comments within the same Haskell file.

Exercise 1. Give your own definition of the function length, which computes the length of a string. Call it len to distinguish it from the built-in function length.

Exercise 2. Do exercise 3.12 from chapter 3 of Computational Semantics with Functional Programming.

Exercise 3. Do exercise 3.13 from chapter 3 of Computational Semantics with Functional Programming.

Exercise 4. Do exercise 3.14 from chapter 3 of Computational Semantics with Functional Programming.

Exercise 5. Define a function that takes a text (given in the form of a string) and returns those words in the text that contain two consecutive vowels (such as the words 'moon' or 'break'). Apply your function to Shakeaspeare's sonnets 18 and 73. The text of the sonnets is included in the Haskell file FPH.hs of Computational Semantics with Functional Programming.

Exercise 6. Implement a boolean function most that takes a list and a property as input and returns the truth value True if and only if more than half of the elements in the list have the given property. Example:

```
most [1,2,3,4,5,6,7] (>3)
```

True

