

# Topic 02 - Tutorial Sheet

## First Steps

### **Exercise 1:**

Parenthesise the following numeric expressions:

1.  $2^3 * 4$
2.  $2 * 3 + 4 * 5$
3.  $2 + 3 * 4^5$

Use GHCi to check your solutions.

### **Exercise 2:**

The library function *last* selects the last element of a non-empty list; for example:

*last* [1,2,3,4,5] = 5

Show that the function *last* could be defined in terms of the other library functions introduced so far.

**Exercise 3:**

The library function *init* removes the last element of a non-empty list; for example:

$$\text{init } [1,2,3,4,5] = [1,2,3,4]$$

Show that the function *init* could be defined in terms of the other library functions introduced so far.