

Exercises

First Steps

1. Parenthesise the following numeric expressions:

(a) $2^3 * 4$

(b) $2 * 3 + 4 * 5$

(c) $2 + 3 * 4^5$

Use GHCi to check your answers.

2. The script below contains three syntactic errors. Correct these errors and then check that your script works properly using GHCi.
3. The library function *last* selects the last element of a non-empty list; for example:

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

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

4. 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.