Task 1.
Define a function that takes a list of floating point numbers and computes the list of square roots of those elements of the list that are $\geq 0$. (Exam 2006)

Task 2.
Define a function that computes the intersection of two lists, that is, a list of those elements that occur in both lists.

Make the signature of your function as general as possible.

Task 3.
Define a function that transforms the first character of a string into lower case. For example,

```
lower "Hello"  ⇒  "hello"
lower "hello World"  ⇒  "hello World"
```

The empty string shall remain unchanged.

Use the function `toLower` which makes a character lower case. This function is defined in the library `Data.Char`. To import this library, insert

```
import Data.Char
```

at the top of your Haskell script.

Note:
Lab tasks have to be performed on the date shown during the lab session and seen by a lab supervisor.