

Programming Paradigms 2022

Session 1: First steps

Problems for solving and discussing

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1 Problems that everyone should solve during the session

1. (**Everyone at the table**) Install Haskell.
2. (**Pair programming**) Load the program [simple.hs](#) available from the Moodle section about this session.
 - Try to evaluate [laengde myList](#).
 - What do you think the result of [sumtree myBigOak](#) will be? Try to explain why.
 - Then check your answer by asking Haskell.
3. (**Pair programming**)
What happens if you write `:t laengde` in the command line? What do you think it means?

More problems to solve at your own pace

- a. Try to modify the definition of [qsort](#) from the file [simple.hs](#) such that it sorts the elements in *descending order* – that is,

```
qsort [2,5,6,3,8]
```

should give us

```
[8,6,5,3,2]
```


Will the function call `qsort ["kpst "," ding "," bop "," plip "]` make sense? Why/why not?
- b. Suppose we changed the definition of [qsort](#) from the file [simple.hs](#) such that we replaced `<=` to `<`. What would happen then?