

Differences in Types

$f :: [a] \rightarrow [b] \rightarrow (a, a)$

$g :: a \rightarrow b \rightarrow (a, a)$

The f function requires lists, whereas the g function can accept input that are not lists.

If we give $[1,2,3]$ as the first input to f , the type a is `Int`.

If we give $[[1,2],[2,3]]$ as the first input to f , the type a is a list of ints.

If we give $[1,2,3]$ as the first input to g , the type a is: list of ints.

If we give $[[1,2],[2,3]]$ as the first input to g , the type a is: list of lists of ints.