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type Person = String
type Book = String

type Database = [ (Person, Book) ]

exampleBase :: Database
exampleBase = [ ("Alice", "Tintin"), ("Anna", "Little women"),
                ("Alice", "Asterix"), ("Rory", "Tintin") ]

books :: Database -> Person -> [Book]
borrowers :: Database -> Book -> [Person]
borrowed :: Database -> Book -> Bool
numBorrowed :: Database -> Person -> Int

makeLoan :: Database -> Person -> Book -> Database
returnLoan :: Database -> Person -> Book -> Database

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```