**section** LabCB14136 **parents** standard\_toolkit

└

─ [ NAME, DATE ] └

This specification describes ...

┌BirthdayBook

known : ℙ NAME

birthday : NAME → DATE

|

known = dom birthday

└

┌ AddBirthday

ΔBirthdayBook

name? : NAME

date? : DATE

|

name? ∉ known

birthday = birthday ∪ { name? ↦ date?}

└

┌ FindBirthday

ΞBirthdayBook

name?:NAME

date! :DATE

|

name?∈known

date! = birthday(name?)

└

┌ Remind

ΞBirthdayBook

today? :DATE

cards! :ℙ NAME

|

cards! = {n:known | birthday(n) = today?}

└

┌ InitBirthdayBook

BirthdayBook

|

known = ∅

└

─

REPORT::= ok | already\_known|not\_known

└

┌ Sucess

result! :REPORT

|

result! =ok

└

┌ AlreadyKnown

ΞBirthdayBook

name? : NAME

result! : REPORT

|

name? ∈ known

result! = already\_known

└

RAddBirthday ==

( AddBirthday ∧ Success) ∨ AlreadyKnown

┌ NotKnown

ΞBirthdayBook

name? : NAME

result! : REPORT

|

name? ∉ known

result! = not\_known

└

RRemind == Remind ∧ Success

RFindBirthday == (FindBirthday ∧ Success) ∨ NotKnown