

Example: Banking System

WithdrawMoney

Δ BankAccount

dollarAmount? : \mathbb{N}

centAmount? : \mathbb{N}

dollarAmount? \leq dollars

dollarAmount? = dollars \Rightarrow centAmount? \leq cents

centAmount? $>$ cents

\Rightarrow (dollars' = dollars - dollarAmount? - 1
 \wedge cents' = cents - centAmount? + 100)

centAmount? \leq cents

\Rightarrow (dollars' = dollars - dollarAmount?
 \wedge cents' = cents - centAmount?)