Example: Banking System

WithdrawMoney

ΔBankAccount
dollarAmount? : $\mathbb{N}$
centAmount? : $\mathbb{N}$

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dollarAmount? ≤ dollars
dollarAmount? = dollars ⇒ centAmount? ≤ cents
centAmount? > cents
  ⇒ (dollars' = dollars − dollarAmount? − 1
     ∧ cents'   = cents − centAmount? + 100)
centAmount? ≤ cents
  ⇒ (dollars' = dollars − dollarAmount?
     ∧ cents'   = cents − centAmount?   )