

model

ACCOUNT

feature -- *Commands*

withdraw (amount: INTEGER)

require

non_negative_amount: amount > 0

affordable_amount: amount ≤ balance

do

balance := balance - amount

ensure

balance_deduced: balance = **old** balance - amount

end



BAD_ACCOUNT_WITHDRAW

feature -- *Redefined Commands*

withdraw (amount: INTEGER) ++

do

Precursor (amount)

-- *Wrong Implementation*

balance := balance + 2 * amount

end

tests

TEST_ACCOUNT

feature -- *Test Commands for Contract Violations*

test_withdraw_postcondition_violation

local

acc: BAD_ACCOUNT_WITHDRAW

do

create acc.make ("Alan", 100)

-- *Violation of Postcondition*

-- *with tag "balance_deduced" expected*

acc.**withdraw** (50)

end

acc

