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EXTENDS Naturals, TLC
CONSTANTS a, b
VARIABLES x, y

ASSUME a \in Nat \land b \in Nat
Init \stackrel{\triangle}{=} x = a \land y = b

a1 \stackrel{\triangle}{=} x > y \quad \land x' = x - y \land y' = y
a2 \stackrel{\triangle}{=} x < y \quad \land y' = y - x \land x' = x
over \stackrel{\triangle}{=} x = y \land x' = x \land y' = y

Next \stackrel{\triangle}{=} a1 \lor a2 \lor over

Proprits de sret vrifier
test \stackrel{\triangle}{=} x \neq y
prop \stackrel{\triangle}{=} x \geq 0
prop2 \stackrel{\triangle}{=} x + y \leq a + b
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