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EXTENDS Naturals

CONSTANTS a, b

VARIABLES x, y

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

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

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

Propriétés de sûreté à vérifier test \stackrel{\triangle}{=} x \neq y
prop1 \stackrel{\triangle}{=} x \geq 0 ok
prop2 \stackrel{\triangle}{=} x + y \leq a + b ok
tocheck \stackrel{\triangle}{=} prop1 \land prop2
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