

MODULE <i>appex1_2</i>
EXTENDS <i>Naturals, TLC</i> CONSTANTS <i>a, b</i> VARIABLES <i>x, y</i>
ASSUME $a \in Nat \wedge b \in Nat$ $Init \triangleq x = a \wedge y = b$
$a1 \triangleq$ $\wedge x > y$ $\wedge x' = x - y$ $\wedge y' = y$ $a2 \triangleq$ $\wedge x < y$ $\wedge y' = y - x$ $\wedge x' = x$ $over \triangleq x = y \wedge x' = x \wedge y' = y$
$Next \triangleq$ $\vee a1$ $\vee a2$ $\vee over$
<div style="background-color: #f0f0f0; padding: 2px; margin-bottom: 5px;">Propriétés de sûreté à vérifier</div> $question \triangleq x \neq y$ $prop1 \triangleq x \geq 0 \wedge y \geq 0$ $prop2 \triangleq x + y \leq a + b$ $prop \triangleq question$