─────────── MODULE $appex1\_1$ ───────────

modules de base importables

EXTENDS $Naturals,\ Integers,\ TLC$

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CONSTANTS max

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VARIABLES np

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tentative 1

$entrer \triangleq np' = np + 1$
$sortir \triangleq np' = np - 1$
$next \triangleq entrer \lor sortir$
$init \triangleq np = 0$

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tentative 2

$entrer2 \triangleq np < max \land np' = np + 1$
$next2 \triangleq entrer2 \lor sortir$

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tentative 3

$sortir2 \triangleq np > 0 \land np' = np - 1$
$next3 \triangleq entrer2 \lor sortir2$

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$Safety1 \triangleq max \in Int$
$Safety2 \triangleq np \leq max$
$Safety3 \triangleq np \geq 0$
$question1 \triangleq np \neq 6$
$Safety \triangleq Safety2 \land Safety3$

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1