```
\longrightarrow module appex1_1 -
  modules de base importables
EXTENDS Naturals, Integers, TLC
CONSTANTS max, maxint, mminint
minint \triangleq -mminint
VARIABLES np
  tentative 1
 entrer \triangleq
       \land TRUE
next1 \triangleq entrer \lor sortir
Init \stackrel{\triangle}{=} np = 0
  tentative 2
\begin{array}{l} entrer2 \stackrel{\triangle}{=} np < max \wedge np' = np + 1 \\ next2 \stackrel{\triangle}{=} entrer2 \ \lor \ sortir \end{array}
  tentative 3
\begin{array}{ccc} & sortir2 \stackrel{\Delta}{=} & np > 0 \land np' = np - 1 \\ next3 \stackrel{\Delta}{=} & entrer2 \lor sortir2 \end{array}
\begin{array}{ccc} \mathit{Safety1} \ \stackrel{\triangle}{=} \ \mathit{np} \in \mathit{Int} \\ \mathit{Safety2} \ \stackrel{\triangle}{=} \ \mathit{np} \leq \mathit{max} \end{array}
Safety3 \triangleq np \geq 0
qq \stackrel{\triangle}{=} np \neq 6
rte \stackrel{\triangle}{=} minint \leq np \land np \leq maxint
Safety \triangleq Safety1 \land Safety2 \land Safety3
Lesclous \triangleq np \in minint ... maxint
```