```
— Module malgtd1ex2 —
   modules de base importables
EXTENDS Naturals, TLC
Constants max
VARIABLES np
   tentative 1
\begin{array}{ccc} entrer & \stackrel{\Delta}{=} & np' = np + 1 \\ sortir & \stackrel{\Delta}{=} & np' = np - 1 \end{array}
Next \triangleq
              \vee\ entrer
              \vee sortir
\begin{array}{ccc} & \stackrel{\cdot}{n} & & \\ Init & \stackrel{\triangle}{=} & np = 0 \\ Q1 & \stackrel{\triangle}{=} & np \neq 789 \end{array}
   tentative 2
\begin{array}{ll} sortir2 \stackrel{\triangle}{=} & np > 0 \wedge np' = np - 1 \\ next2 \stackrel{\triangle}{=} & entrer \vee & sortir2 \end{array}
 entrer2 \; \stackrel{\Delta}{=} \; np < max \wedge np' = np + 1
next3 \triangleq entrer2 \lor sortir2
\begin{array}{ccc} safety1 & \stackrel{\triangle}{=} & np \leq max \\ safety2 & \stackrel{\triangle}{=} & 0 \leq np \\ question1 & \stackrel{\triangle}{=} & np \neq 6 \end{array}
```