─────────── MODULE $SimpleProgram$ ───────────

EXTENDS $Integers$
VARIABLES i, pc

$Init \triangleq (pc = \text{"start"}) \land (i = 0)$

$Pick \triangleq \land pc = \text{"start"}$
$\qquad\qquad \land i' \in 0 \mathinner{.\,.} 1000$
$\qquad\qquad \land pc' = \text{"middle"}$

$Add1 \triangleq \land pc = \text{"middle"}$
$\qquad\qquad \land i' = i + 1$
$\qquad\qquad \land pc' = \text{"done"}$

$Next \triangleq Pick \lor Add1$

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