## — MODULE SimpleProgram -

EXTENDS Integers VARIABLES i, pc

$$Init \stackrel{\triangle}{=} (pc = "start") \land (i = 0)$$

$$\begin{array}{ccc} Pick & \stackrel{\Delta}{=} & \vee \wedge pc = \text{"start"} \\ & \wedge i' \in 0 \dots 1000 \\ & \wedge pc' = \text{"middle"} \end{array}$$

$$\begin{array}{ccc} Add1 \; \stackrel{\triangle}{=}\; \; \vee \; \wedge \; pc = \; \text{``middle''} \\ & \wedge \; i' \; = \; i+1 \\ & \wedge \; pc' = \; \text{``done''} \end{array}$$

 $Next \triangleq Pick \lor Add1$ 

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