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— MODULE crackers2a -
Constants Things, People
VARIABLES desires, holds
\begin{array}{ll} \mathit{Init} \ \stackrel{\triangle}{=} \ \land \mathit{desires} = [p \in \mathit{People} \mapsto \{\}] \\ \land \mathit{holds} \ = [p \in \mathit{People} \mapsto \{\}] \end{array}
Desire(p) \stackrel{\triangle}{=} \land desires[p] = \{\}
                         \land \exists t \in Things:
                             \land desires' = [desires \ EXCEPT \ ![p] = \{t\}]
                              \land UNCHANGED holds
Acquire(p) \stackrel{\triangle}{=} \exists t \in desires[p] :
                              \land t \notin holds[p]
                              \land holds' = [holds \ \text{EXCEPT} \ ![p] = holds[p] \cup \{t\}]
                              \land unchanged desires
Next \triangleq \exists p \in People :
                    \vee Desire(p)
                   \vee Acquire(p)
Spec \stackrel{\Delta}{=} Init \wedge \Box [Next]_{\langle desires, \, holds \rangle}
```