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— MODULE crackers2 -
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 \stackrel{\triangle}{=} \exists p \in People:
                       \land desires[p] = \{\}
                       \wedge \exists t \in Things:
                           \land desires' = [desires \ EXCEPT \ ![p] = \{t\}]
                            \land UNCHANGED holds
Acquire \stackrel{\triangle}{=} \exists p \in People :
                        \exists t \in desires[p]:
                             \land t \notin holds[p]
                             \land holds' = [holds \ \text{EXCEPT} \ ![p] = holds[p] \cup \{t\}]
                             \land UNCHANGED desires
Next \stackrel{\triangle}{=} \lor Desire
                 \lor Acquire
Spec \stackrel{\Delta}{=} Init \wedge \Box [Next]_{\langle desires, \, holds \rangle}
```