\land UNCHANGED $\langle rfidScan, medicineList \rangle$

 $Medicine Availability \triangleq$

 $\lor \land medicineList = "received"$ $\land available = "undetermined"$ $\land medicineCount = 0$

 $\land purchaseList' = "finalized"$

```
\land UNCHANGED \langle available, medicineCount, purchaseCount \rangle
    \lor \land medicineList = "received"
         \land available = "undetermined"
         \land medicineCount \in (1...20)
         \land available' \in \{\text{"yes"}, \text{"no"}\}
         \land UNCHANGED \langle medicineCount, purchaseList, purchaseCount <math>\rangle
        \land medicineList = "received"
         \land available = "yes"
         \land medicineCount' = medicineCount - 1
         \land purchaseCount' = purchaseCount + 1
         \land available' = "undetermined"
         \land UNCHANGED \langle purchaseList \rangle
        \land medicineList = "received"
         \land available = "no"
         \land medicineCount' = medicineCount - 1
         \land available' = "undetermined"
         \land UNCHANGED \langle purchaseList, purchaseCount \rangle
        \land medicineList = "notReceived"
         \land Unchanged \langle available, purchaseList, purchaseCount \rangle
BillCheckout \triangleq
    \lor \land purchaseList = "notFinalized"
         \land UNCHANGED \langle bill, payment, logTransaction <math>\rangle
    \lor \land purchaseList = "finalized"
         \wedge bill = "undetermined"
         \wedge purchaseCount = 0
         \wedge bill' = "notRequired"
         ∧ UNCHANGED ⟨payment, logTransaction⟩
    \lor \land purchaseList = "finalized"
         \land bill = "undetermined"
         \land purchaseCount \in (1...20)
         \wedge bill' = "required"
         \land UNCHANGED \langle payment, logTransaction \rangle
    \lor \land purchaseList = "finalized"
         \land bill = "notRequired"
         \land payment' = "done"
         \land logTransaction' = "done"
         \land UNCHANGED \langle bill \rangle
    \lor \land purchaseList = "finalized"
         \wedge bill = "required"
         \land bill' = "prepared"
         \land UNCHANGED \langle payment, logTransaction \rangle
    \lor \land purchaseList = "finalized"
         \wedge bill = "prepared"
         \land payment = "notDone"
```

 $[\]backslash * \ {\bf Modification} \ {\bf History}$

^{\ *} Last modified Mon Nov 08 18:40:38 IST 2021 by ubuntu

^{\^*} Created Mon Nov 08 18:39:09 IST 2021 by ubuntu