```
MODULE EagerVotingL
 1 [
    ERROR: The THEOREM in this module does NOT hold: ShowsSafeAt(Q, b, v) may hold in
    EagerVoting but not in Voting with lazyMaxBal \leftarrow maxBal.
    EXTENDS EagerVoting
 8
    Variable lazyMaxBal
     TypeOKL \triangleq
11
          \land TypeOK
12
         \land lazyMaxBal \in [Acceptor \rightarrow Ballot \cup \{-1\}]
13
    \mathit{InitL} \; \stackrel{\scriptscriptstyle \Delta}{=} \;
15
          \wedge Init
16
          \wedge lazyMaxBal = [a \in Acceptor \mapsto -1]
17
     IncreaseMaxBalL(a, b) \triangleq
19
          \land IncreaseMaxBal(a, b)
20
          \wedge lazyMaxBal' = [lazyMaxBal \ EXCEPT \ ![a] = b]
21
     VoteForL(a, b, v) \triangleq
23
          \land VoteFor(a, b, v)
24
          \land lazyMaxBal' = [lazyMaxBal \ EXCEPT \ ![a] = b]
25
26
    NextL \triangleq
27
         \exists a \in Acceptor, b \in Ballot:
28
             \vee IncreaseMaxBalL(a, b)
29
             \forall \exists v \in Value : VoteForL(a, b, v)
30
    SpecL \triangleq InitL \wedge \Box [NextL]_{\langle votes, maxBal, lazyMaxBal \rangle}
33
     V \triangleq \text{INSTANCE } Voting \text{ WITH } maxBal \leftarrow lazyMaxBal
    THEOREM SpecL \Rightarrow V!Spec
     \* Modification History
     * Last modified Wed Aug 14 10:33:29 CST 2019 by hengxin
     \ * Created Tue Aug 13 20:16:36 CST 2019 by hengxin
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