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— Module SystemModel —
1 [
     Constants and related definitions describing the system model of Jupiter protocols.
 5 EXTENDS Naturals, Sequence Utils
     CONSTANTS
          Client,
                             the set of client replicas
          Server,
                             the (unique) server replica
 9
10
          Msg,
                             the set of messages
          Char,
                             the set of characters
11
          InitState
12
                             the initial state of each replica
     ASSUME We assume that all inserted elements are unique.
               Range(InitState) \cap Char = \{\} due to the uniqueness requirement
15
16
     Replica \triangleq Client \cup \{Server\}
    List \stackrel{\triangle}{=} Seq(Char \cup Range(InitState)) all possible lists MaxLen \stackrel{\triangle}{=} Cardinality(Char) + Len(InitState) the max length of lists in any state
    \begin{array}{ll} \textit{ClientNum} & \triangleq \textit{Cardinality}(\textit{Client}) \\ \textit{Priority} & \triangleq \textit{Choose} \ f \in [\textit{Client} \rightarrow 1 \ .. \ \textit{ClientNum}] : \textit{Injective}(f) \end{array}
     \* Modification History
     \* Last modified Sun Jan 13 09:55:59 CST 2019 by hengxin
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