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– MODULE RGAH –
EXTENDS RGA, Sequence Utils
VARIABLE list
varsH \triangleq \langle vars, list \rangle
TypeOKH \triangleq TypeOK \land (list \in SUBSET\ List)
InitH \triangleq Init \land list = \{\}
DoH(r) \stackrel{\Delta}{=} Do(r) \wedge list' = list \cup \{Readtree 2 list(rtree[r]', "o", rtomb[r]', \{\})\}
SendH(r) \triangleq Send(r) \wedge list' = list
ReceiveH(r) \stackrel{\Delta}{=} Receive(r) \land list' = list \cup \{Readtree2list(rtree[r]', "o", rtomb[r]', \{\})\}
NextH \stackrel{\triangle}{=}
   \exists r \in Replica : DoH(r) \lor SendH(r) \lor ReceiveH(r)
SpecH \stackrel{\Delta}{=} InitH \wedge \Box [NextH]_{varsH}
Weak List Consistency
WLSpec \triangleq \forall l1, l2 \in list:
                       \land Injective(l1)
                       \land Injective(l2)
                       \land Compatible(l1, l2)
Strong List Consistency
SLSpec \triangleq
                  \land WLSpec
                  \wedge \forall l1, l2, l3 \in list:
                       nocylce(l1, l2, l3)
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