```
- MODULE Network
EXTENDS Bags, Message
VARIABLES
    incoming,
    msg
vars \triangleq \langle incoming, \, msg \rangle
CONSTANTS
    Msg
NotMsg \triangleq CHOOSE \ m: m \notin Msg
NInit \stackrel{\triangle}{=}
     \land Minit
     \land incoming = [r \in Replica \mapsto EmptyBag]
     \land msg = [r \in Replica \mapsto NotMsg]
NBroadcast(r, m) \triangleq
     \land incoming' = [x \in Replica \mapsto
                            If x = r
                             THEN incoming[x]
                             ELSE incoming[x] \oplus SetToBag(\{m\})]
     \land \mathit{MBroadcast}
     \land UNCHANGED \langle msg \rangle
NDeliver(r) \triangleq
     \land incoming[r] \neq EmptyBag
     \land \exists m \in BagToSet(incoming[r]):
          \land msg' = [msg \ \text{EXCEPT} \ ![r] = m]
          \land MDeliver(r, m)
     \land UNCHANGED \langle incoming \rangle
EmptyChannel \triangleq
    incoming = [r \in Replica \mapsto EmptyBag]
 judge if two replicas receive the same set of update operations
\* Modification History
* Last modified Mon May 06 15:30:04 CST 2019 by jywellin
\* Last modified Sun Apr 21 21:44:03 CST 2019 by xhdn
\* Created Mon Mar 25 20:24:02 CST 2019 by jywellin
```