Algorithm – Leader Election

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Algorithm 1 Monarchical Leader Election
Implements:
         LeaderElection, instance le.
Uses:
         PerfectFailureDetector, instance P.
 1: upon event \langle Init \rangle do
 2:
         suspected := \emptyset
         \mathit{leader} \mathrel{\mathop:}= \bot
 3:
 4: upon event \langle P, Crash | p \rangle do
         suspected := suspected \cup \{p\}
 5:
 6: upon event \langle leader \neq MAXRANK(\Pi \setminus suspected) \rangle do
         leader := MAXRANK(\Pi \setminus suspected)
 7:
         trigger \langle le, Leader | leader \rangle
 8:
```