

Phase 1 – election

- Potential leader chooses a unique ballot id, higher than seen anything so far
- Sends to all processes
- Processes wait, respond once to highest ballot id
 - If potential leader sees a higher ballot id, it can't be a leader
 - Paxos tolerant to multiple leaders, but we'll only discuss 1 leader case
 - Processes also **log** received ballot ID on disk
- If a process has in a previous round decided on a value v' , it includes value v' in its response
- If **majority (i.e., quorum)** respond OK then you are the leader
 - If no one has majority, start new round
- (If things go right) A round cannot have two leaders (why?)

