

RaftNode

-id: int
-electionTimer: Timer
-currentTerm: int
-votedFor: int
-log: ArrayList<LogEntry>
-commitIndex: int
-lastApplied: int
-nextIndex: int[]
-matchIndex: int[]

-sendAppendEntries(nodeId: int): void
-receiveAppendEntries(term: int, leaderId: int, prevLogIndex: int, prevLogTerm: int, entries: LogEntry[], leaderCommit: int): boolean
-sendRequestVote(nodeId: int): void
-receiveRequestVote(term: int, candidateId: int, lastLogIndex: int, lastLogTerm: int): boolean

LogEntry

-index: int
-term: int
-command: String (JSON)

-getters and setters

Timer

-timeLeft: int
-node: RaftNode

-reset: void