Project 2

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You are required to implement the multi Paxos protocol.
Requirement

• Required:
  – Pipelined execution
  – Failure recovery including leader election
  – Use retransmission to handle message losses

• Not required
  – Garbage collection
  – On-disk log and state management (you can put everything in memory)
Requirement

• Application:
  – Server (learner): it maintains an in-memory hashmap
  – Client: it can send “put <key, value>” and get <key>” to the server
Template

• We provide a template to simplify your implementation
  – It includes the networking and configuration code
  – You job: define messages; implement the protocol

• Testing: the template allows fault injection (e.g. kill the leader after receiving the 2\textsuperscript{nd} msg)
  – You should design as many test cases as possible
  – I may add a few if yours is not enough