main / wc. go.   client driver.   mapreduce / master. go.

main(.).
Sequential(.)
Distributed(.)

mapreduce. Sequential(.). {
  switch (.) {
    mapPhase(.)
    reducePhase(.).
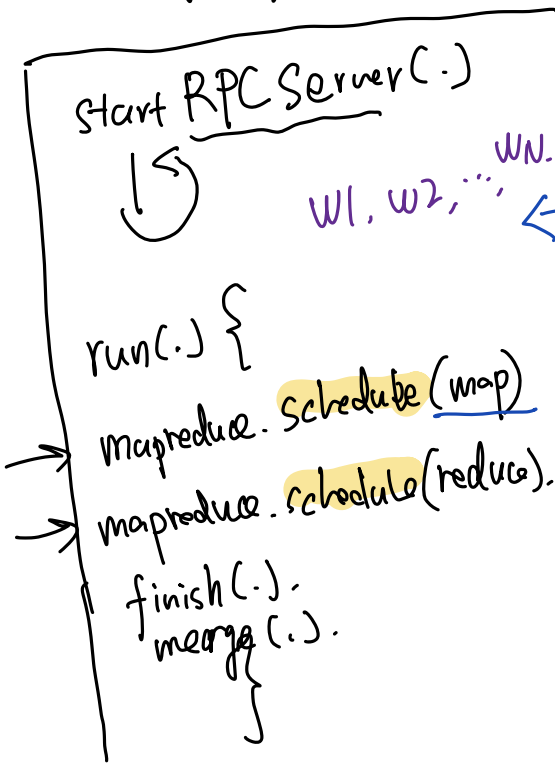 }
}

mapreduce. Distributed(.).
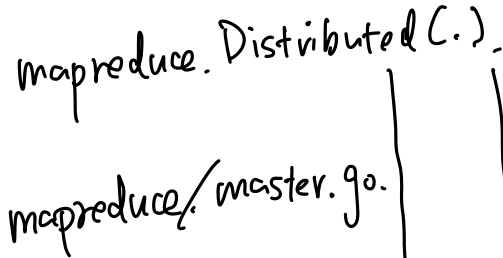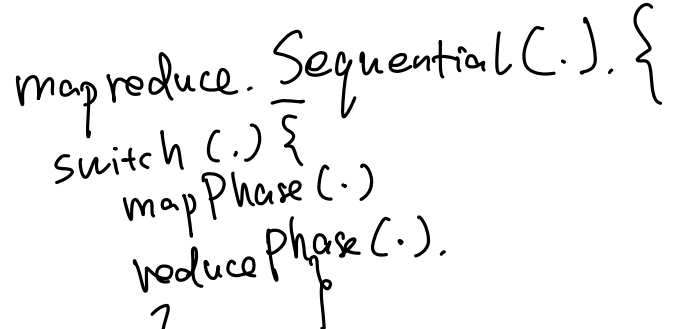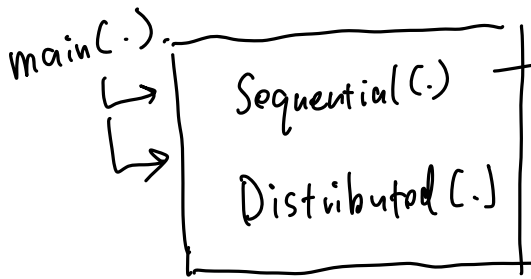
mapreduce. RunWorker(.).   mapreduce / worker. go.

mapreduce / master. go.

master RPC server.

... WN

W2 ...

Start RPC Server(.)   Register RPC.

W1, W2, ..., WN.

run(.) {
  mapreduce. Schedule(map)
  mapreduce. schedule(reduce).
  finish(.).
  merge(.).
}

DoTask RPCs

DoTask RPCs

RPC Server. W1
master. Register(.).
DoTask(.) {
  do Map(.).
    ↳ mapF.
}
DoTask(.) {
  doReduce(.)
    ↳ reduceF.
}

mapreduce / worker. go.
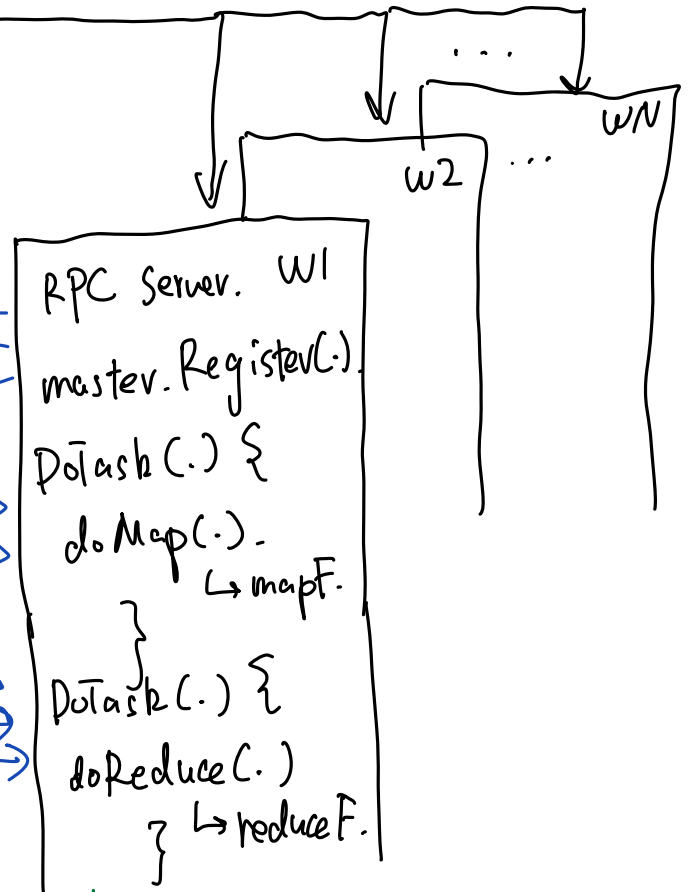
DoTask(.).   mapreduce / common-map. go.

↳ doMap   main / wc. go.

↳ mapF

mapreduce / common-reduce. go

↳ do Reduce.

main/ wc. go.

└──→ reduce F

mapreduce / schedule. go.

schedule