## Server

```
receive msg {
                                    doSync (Node sn, Log log) {
                                       // If the storage log is not
 case ClientReq:
                                       // up-to-date, replicate
  this.Data = message.Val;
                                       if (!isUpToDate(log))
  // Replicate data to all nodes
  foreach (sn in this.Nodes)
                                        sn.send(ReplReq, this.Data);
    sn.send(ReplReq, this.Data);
                                       else {
                                        this.NumReplicas++;
 case Sync:
                                        if (this.NumReplicas == 3)
  Node node = message.Id;
                                          this.Client.send(Ack);
  Log log = message.Log;
  doSync(node, log);
```

## Storage Node

```
receive msg {
  case ReplReq:
    // Store received data
    store(message.Val);

case Timeout:
    // Send server the log
    // upon timeout
    this.Server.send(Sync,
        this.Id, this.Log);
}
```

## Client

```
while (hasNextRequest()) {
   this.Server.send(ClientReq,
      this.DataToReplicate);
   receive(Ack); // Wait for ack
}
```

## <u>Timer</u>

```
// Send timeout to node when
// countdown reaches 0
if (this.Countdown == 0)
this.SN.send(Timeout);
```