Lecture Instructions

Connecting to the replica set:

```
mongo --host "m103-example/m103.mongodb.university:27011" -u "m103-admin" -p
"m103-pass" --authenticationDatabase "admin"
```

COPY

Checking replica set topology:

```
rs.isMaster()
```

COPY

Inserting one document into a new collection:

```
use newDB
db.new_collection.insert( { "student": "Matt Javaly", "grade": "A+" } )
```

COPY

Connecting directly to a secondary node (this node may not be a secondary in your replica set!):

```
mongo --host "m103.mongodb.university:27012" -u "m103-admin" -p "m103-pass"
--authenticationDatabase "admin"
```

COPY

Attempting to execute a read command on a secondary node (this should fail):

```
show dbs
```

COPY

Enabling read commands on a secondary node:

```
rs.slaveOk()
```

COPY

Reading from a secondary node:

COPY

```
use newDB
db.new_collection.find()
```

Attempting to write data directly to a secondary node (this should fail, because we cannot write data directly to a secondary):

```
db.new_collection.insert( { "student": "Norberto Leite", "grade": "B+" } )
```

COPY

Shutting down the server (on both secondary nodes)

COPY

```
use admin
db.shutdownServer()
```

Connecting directly to the last healthy node in our set:

COPY

```
mongo --host "m103.mongodb.university:27011" -u "m103-admin" -p "m103-pass"
--authenticationDatabase "admin"
```

Verifying that the last node stepped down to become a secondary when a majority of nodes in the set were not available:

```
rs.isMaster()
```