

1. Final: Question 6

Suppose you have a collection of students of the following form:

```
{
  "_id" : ObjectId("50c598f582094fb5f92efb96"),
  "first_name" : "John",
  "last_name" : "Doe",
  "date_of_admission" : ISODate("2010-02-21T05:00:00Z"),
  "residence_hall" : "Fairweather",
  "has_car" : true,
  "student_id" : "2348023902",
  "current_classes" : [
    "His343",
    "Math234",
    "Phy123",
    "Art232"
  ]
}
```

Now suppose that basic inserts into the collection, which only include the last name, first name and student_id, are too slow (we can't do enough of them per second from our program). What could potentially improve the speed of inserts. Check all that apply.

- ☐ ☐ Add an index on last_name, first_name if one does not already exist. Remove all
- ☐ indexes from the collection, leaving only the index on _id in place Provide a hint to
- ☐ ☐ MongoDB that it should not use an index for the inserts Set w=0, j=0 on writes Build a replica set and insert data into the secondary nodes to free up the primary nodes.

