

Lab 4

1. [Question 1 (4 pts)] Explain, in your own words, the process used to mock the database and test the `getRoomOccupant` function.

You mock a database and then tell it what to return when you call `getRoomOccupant` and then you check to see if it returns the correct values.

2. [Question 2 (4 pts)] Specify how you can use the `LastCall` class to throw an exception.

```
LastCall.throw(new Exception());
```

3. [Question 3 (4 pts)] In the above example, we used a `\stub` since the mocked object returned a value. Do I need to use a stub if the mocked object did not return a value? Can I replace the stub with a `DynamicMock`?

No you do not need to use a stub, and yes you can replace the stub with a `DynamicMock`.

4. [Question 4 (4 pts)] Explain, in your own words, the process used to mock the database and test the `AvailableRooms` property.

You mock a database, give it a list of rooms, get `AvailableRooms`, and then you check to see if it returns the correct values.

5. [Question 5 (4 pts)] Explain, in your own words, the process used to ensure that the service locator removes a car from its available cars when a car is booked.

You create a service locator, add cars to it, use reflection to set the static `_instance`, then call `Book`, and test to see if it has the right number of cars left.