WS39 - EXAM REVIEW

DATE: 02th march 2022

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Inspector: Angel Guaman


```java
public void quickSort(ArrayList<Integer> listQuick, int first, int end) {
    if (first >= end) {
        return;
    }
    int pivot = listQuick.get(first);
    int leftElement = first + 1;
    int rightElement = end;
    while (leftElement <= rightElement) {
        while (leftElement <= end && listQuick.get(leftElement) < pivot) {
            leftElement++;
        }
        while (rightElement > first && listQuick.get(rightElement) >= pivot) {
            rightElement--;
        }
        if (leftElement < rightElement) {
            int temp = listQuick.get(leftElement);
            listQuick.set(leftElement, listQuick.get(rightElement));
            listQuick.set(rightElement, temp);
        }
    }

    if (rightElement > first) {
        int temp = listQuick.get(first);
        listQuick.set(first, listQuick.get(rightElement));
        listQuick.set(rightElement, temp);
    }
    quickSort(listQuick, first, rightElement - 1);
    quickSort(listQuick, rightElement + 1, end);
}

@Override
public int[] sort(int[] data) {
```

Strategy pattern:..........10/10
GUI:.............................10./10

Exma 3 Guitarra Jhon

Enter the numbers to order separated by a comma

`1 45 8 3 4 9 7 3 15 12 48 10 66 59 20`

I'm gonna get lucky

Ordered numbers

Sort Algorithm used

mongodb-driver-core-3.12.10.jar

working algorithms:.....8/10

Exma 3 Guitarra Jhon

Enter the numbers to order separated by a comma

`-10 -45 -5 -1 -2 5 9 8`

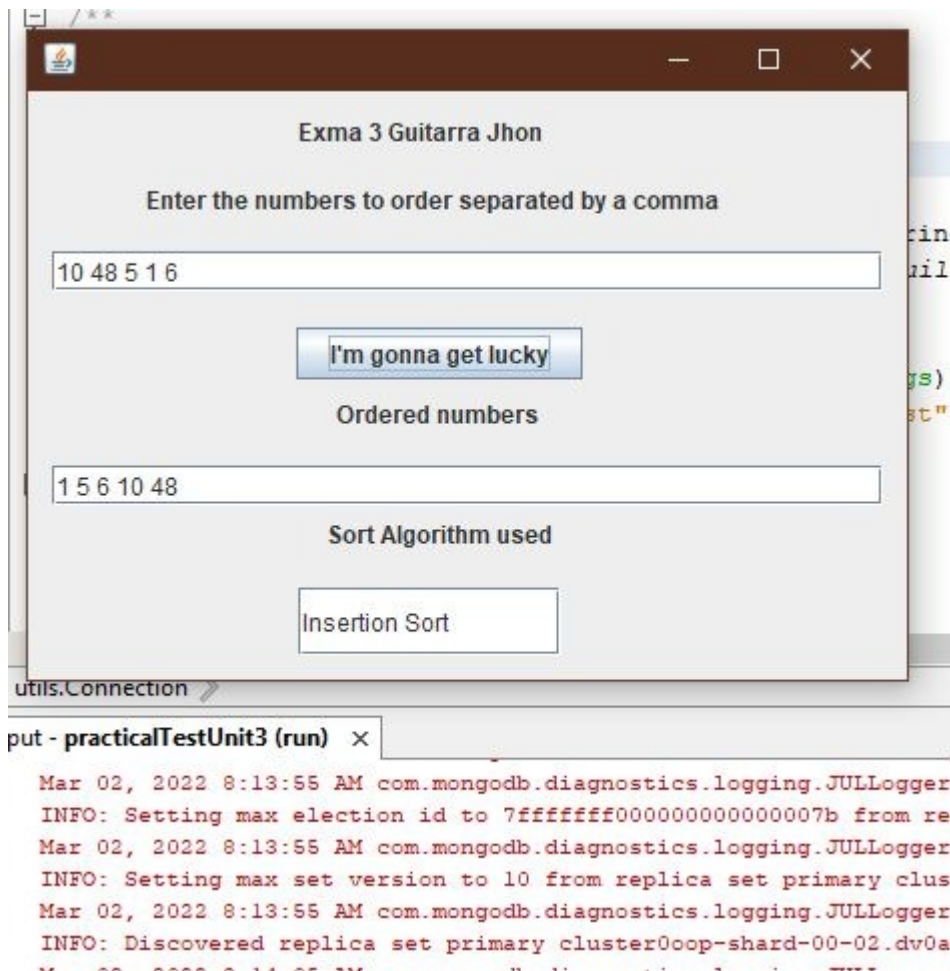**I'm gonna get lucky**

Ordered numbers

`-45 -10 -5 -2 -1 5 8 9`

Sort Algorithm used

`Quick Sort`

utils.Connection

tput - practicalTestUnit3 (run) ×

```
Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger l
INFO: Setting max election id to 7fffffff000000000000007b from repl
Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger l
INFO: Setting max set version to 10 from replica set primary cluste
Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger l
INFO: Discovered replica set primary cluster0oop-shard-00-02.dv0as.
Mar 02, 2022 8:14:05 AM com.mongodb.diagnostics.logging.JULLogger l
INFO: Opened connection [connectionId{localValue:4, serverValue:376
```

Exma 3 Guitarra Jhon

Enter the numbers to order separated by a comma

```
10 48 5 1 6
```

I'm gonna get lucky

Ordered numbers

```
1 5 6 10 48
```

Sort Algorithm used

```
Insertion Sort
```

utils.Connection

put - practicalTestUnit3 (run) ×

Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger
INFO: Setting max election id to 7fffffff000000000000007b from rep
Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger
INFO: Setting max set version to 10 from replica set primary clust
Mar 02, 2022 8:13:55 AM com.mongodb.diagnostics.logging.JULLogger
INFO: Discovered replica set primary cluster0oop-shard-00-02.dv0a

Clean code/principles:.9.5/10

JSON MongoDB:..........10/10
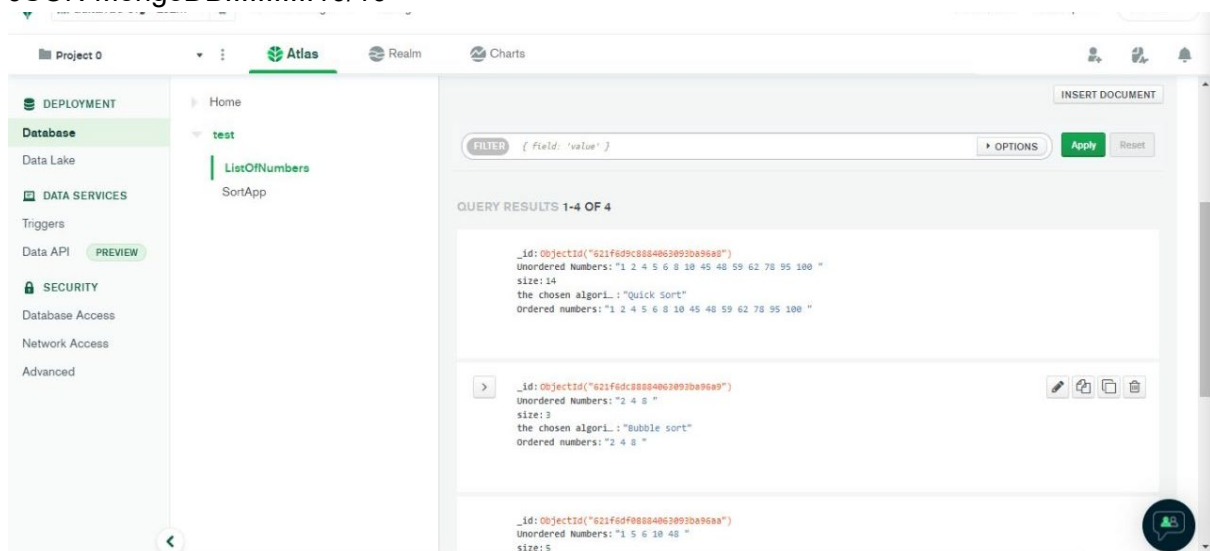
TOTAL   47.5 /50

Strategy pattern
GUI

working algorithms
Clean code/principles
JSON MongoDB

22   GUZMAN LOPEZ JOSE DAVID
inspector : Guitarra Jhon
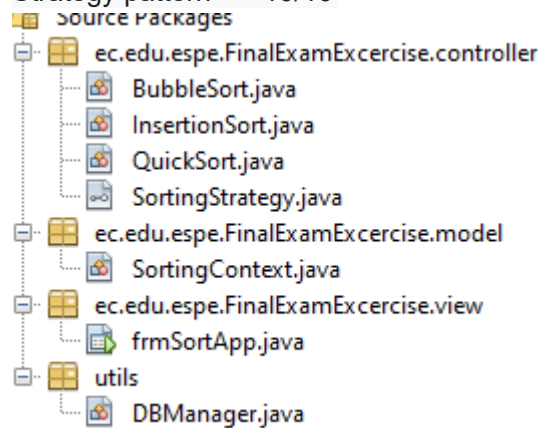Jhon
Strategy pattern:..........10/10
GUI:..............................10/10
working algorithms:.....0/10
Clean code/principles:.8/10
JSON MongoDB:..........7.5/10

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TOTAL   35.5/50

Strategy pattern —--10/10

Source Packages
- ec.edu.espe.FinalExamExcercise.controller
  - BubbleSort.java
  - InsertionSort.java
  - QuickSort.java
  - SortingStrategy.java
- ec.edu.espe.FinalExamExcercise.model
  - SortingContext.java
- ec.edu.espe.FinalExamExcercise.view
  - frmSortApp.java
- utils
  - DBManager.java

Test Packages

all ok

```java
 */
public class SortingContext {
    private SortingStrategy strategy;

    public int[] sort( int data[] ) {
        int size;
        size = data.length;
        strategy = setSortStrategy(size);
        return strategy.sort(data);
    }

    public SortingStrategy setSortStrategy(int n) {
        if( n >0 && n < 3 ){
        strategy = new BubbleSort();}

        if( n >= 3 && n < 7 ){
        strategy = new InsertionSort();}

        if( n >= 7 ){
        strategy = new QuickSort();}

        return strategy;
    }
}
```
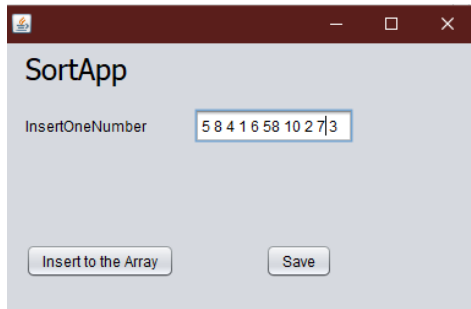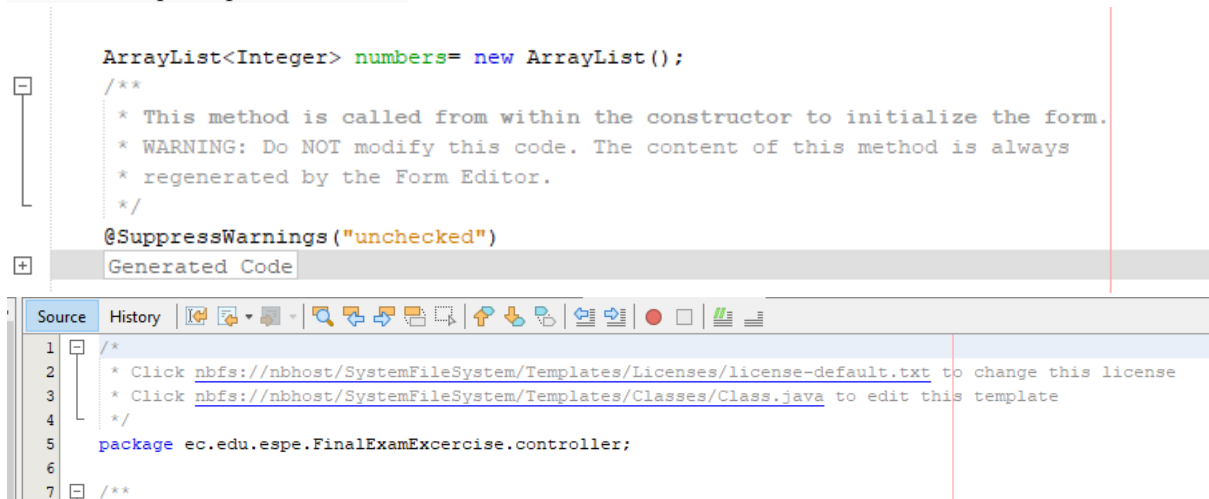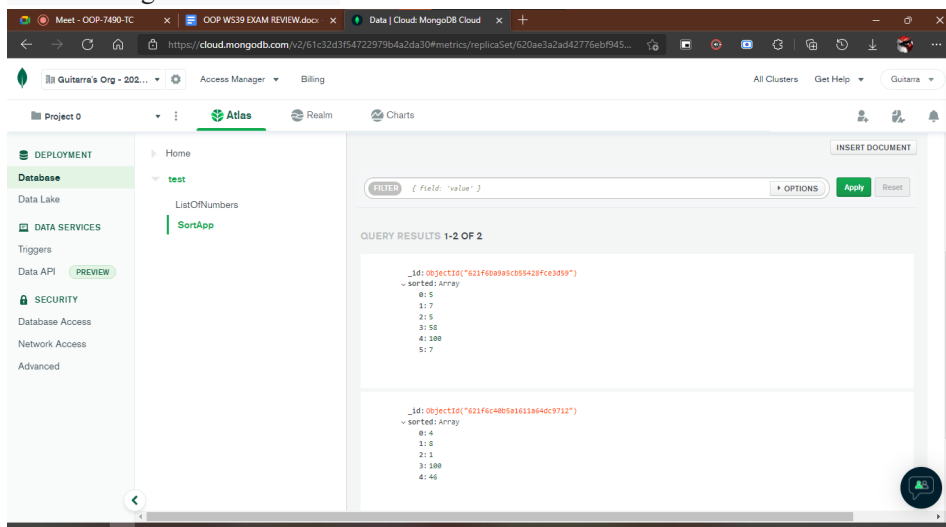
all ok

GUI…../10

working algorithms…...0/10
Clean code/principles……..8/10


```
ArrayList<Integer> numbers= new ArrayList();
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
Generated Code
```

```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5  package ec.edu.espe.FinalExamExcercise.controller;
6
7  /**
```

instructor: undeleted comments
JSON MongoDB……10/10

instructor: connection with mongo, all OK