

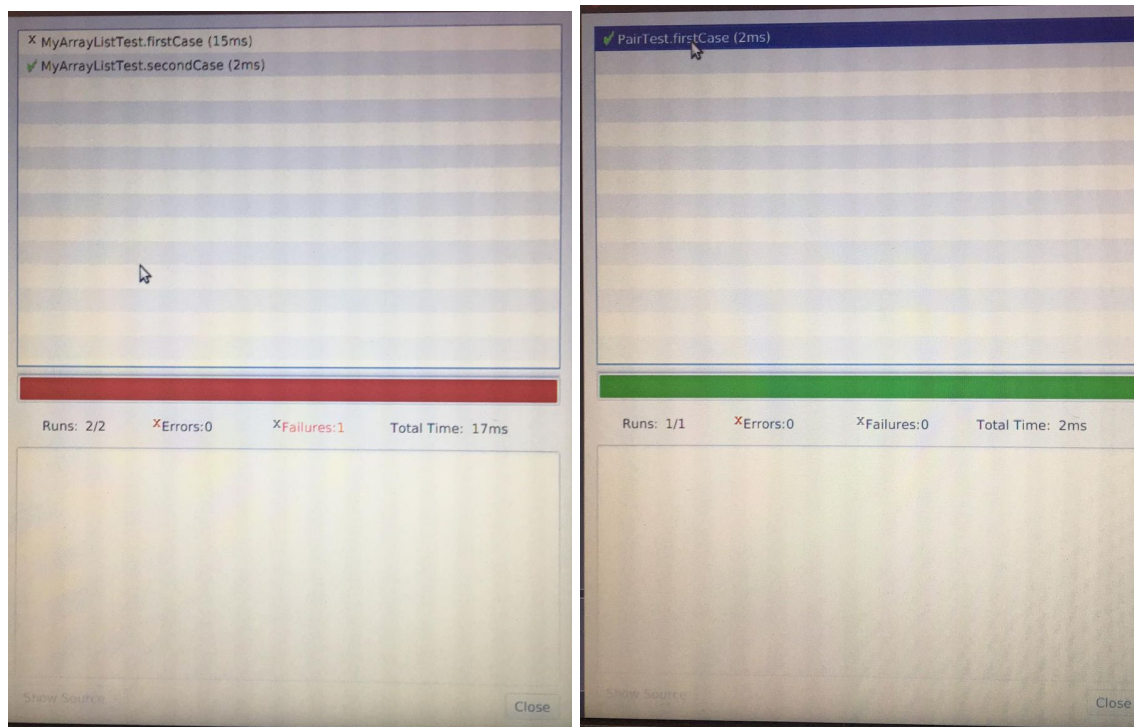
Introduction

The goal of Week 5's lab is to implement the composite design Pair with generic type variables key and value, a MyArrayList that extends ArrayList of Pairs, stable quicksort method for the MyArrayList class and binary search for the same class.

Unit Testing

Test performed:

- Test case 1: Testing on setters and getters of the Pair class
- Test case 2: Testing on the stable quicksort method
- Test case 3: Testing on the binary search method



Required output

There is no required output for this lab

Trouble Report

The lab experimenter did not succeed to complete the following:

- Limited number of test cases
- The Stable quicksort method performs sorting successfully but encounters error on switching the key on the auxiliary ArrayList back to original keys.

References

java.io (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/io/package-summary.html>

java.time (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/time/package-summary.html>

java.util (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/util/package-summary.html>

Random (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/util/Random.html>

Iterator (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/util/Iterator.html>

ArrayList (Java Platform SE 8). (n.d.). Retrieved February 16, 2020, from <https://docs.oracle.com/javase/8/docs/api/java/util/ArrayList.html>