

Homework 7

Use the code in directory `userid`. I have given you the skeletons for all classes that you need to implement. Comments in the code provide suggestions as to how to implement the functions. You should implement all necessary constructors. The code in `HW4.java` should not be changed, and this code should be used as your main function.

`Comparable` is a base class that allows two objects that derive from `Comparable` to be compared as greater than, less than or equal to another `Comparable` object. `IntArray` and `Point` are two classes that derive from `Comparable`, and therefore can be compared. They also implement a `hashCode()` and `equal()` that override the definition provided by `Object`. The constraints on these methods are given in the comments. Finally, `main` uses the functionality in `Comparable` to sort arrays of `Comparable` objects and runs some tests on your `hashCode()` and `equals()` functions.

What to turn in

Zip up your `userid` directory that contains your solution and upload it to Brightspace.

Grading:

2 point for compiling and running.

4 points each for each of the three checking hash and equal having all oks

4 points for "Printing `compArray:`" output matching.