

Extending Time Class Exercise

The following questions rely on the Time class you worked in a previous lab and specified at:

<http://www.cs.umd.edu/class/fall2011/cmsc132h/labs/Week2/TimeClassDoc/index.html>

1. Modify the class so it stores time using military time. Military time is described at <http://www.spacearchive.info/military.htm>
2. Add a comparator (class implementing Comparator) that allow us to sort a list of Time objects in an increasing fashion. Write a JUnit test that sorts a list of values.
3. Make the class Time implement the Comparable interface so we can sort a list of Time objects in a decreasing fashion. Write a JUnit test that sorts a list of values.
4. Add a clone method and an equals method (as described in lecture) for the Time class. Provide some JUnit tests for these methods.
5. Provide methods that allow us to go from regular time to military time (and vice versa).