Homework 7 - Due Saturday, July 23rd

Eclipse Suggestion

We suggest you create a Homework7 Java project in Eclipse and unzip hw7.zip into the src folder. Use the same process as stated in homework 3 for setting up JUnit.

Complete MinHeap

You have been given a skeleton for a MinHeap class along with JUnit tests. We have already implemented the compare function that will allow for either Comparable elements or a supplied Comparator. When comparing elements you should use the compare function we have supplied.

Complete Functions.java

You must complete the numEmployees function in Functions.java. The full description is given in the comments. There is also an extra credit medians function if you choose to submit it. Both have associated JUnit tests. The grader has extra tests that she will be running in addition to the given ones.

Stack Overflow on numEmployees

A valid implementation of numEmployees may give a stack overflow when running on the tests. To avoid this in your run configuration for EmployeesTests.java add the following VM option (that increases the stack size):

-Xss200M

If you are testing outside of Eclipse you can use the following command-line. Windows version:

java -Xss200M -cp ./junit-4.12.jar;./hamcrest-core-1.3.jar
org.junit.runner.JUnitCore EmployeesTests

Mac version:

java -Xss200M -cp ./junit-4.12.jar:./hamcrest-core-1.3.jar
org.junit.runner.JUnitCore EmployeesTests

What you submit

You should submit MinHeap.java and Functions.java (and any other .java files you created) in a single zip file that is uploaded to NYU Classes. Please name your zip file hw7_yourNetID.zip