

COSC 201 – Lab #5

Heaps of Fun

Purpose: to practice using the Java API version of HeapSet and TreeSet.

Tasks:

- 1.) Open Eclipse and start a new Java Project called Set Project
- 2.) Add a new class called SetPractice. SetPractice will have no extra fields or methods aside from main.
- 3.) In main(), declare and instantiate a HashSet called myHash and declare and instantiate a TreeSet called myTree. Add the following integers to those sets:

1, 10, 32, 12, 5, 4, 12, 33, 19, 10, 22, 4, 60, 89

Then, print out every member of myHash. Finally, print out every member of myTree, except in reverse (you should see the reverse ordering of the numbers above, without any duplicates). You may not use an Iterator for this.

Hint: it has something to do with Comparators – and no, you do not need to define your own. Check the Collections API and the API listing for TreeSet constructors.

- 4.) Turn in your code via the Digital Dropbox in Blackboard.