1. Implement the ADT SortedList by using a binary search tree.

The class may be created as follows:

|  |
| --- |
| **public** **class** SortedTreeList <T **extends** Comparable <? **super** T>>  **implements** SortedListInterface <T>, Iterable <T> {  **private** BinarySearchTree <T> tree;  // the rest of code |

1. Repeat the second part of lab 6 (Sorted list) using this implementation.
2. Create the sorted list out of names in the provided file names.txt. Sort them by last names. You can create a class Name like in lab8, but make sure to adjust the method compareTo(). Output the list in a text file.