Home Work – Lesson -6 – Inner class

Problem:

Fully implemented DeptEmployee.java and its two subclasses, Professor and Secretary and a DeptEmplyeeData class, have one static method to get the data to work. Add the given below line in your Test class main method to retrieve data.

DeptEmployee[] data = DeptEmployeeData.getDeptData();

All those classes are uploaded on your Sakai assignment as a compressed file. You can download and extract to use.

Complete the given below Sorting Task for the above DeptEmplyee array data.

Task A: Sort the DeptEmployee array by implementing the Comparator outside of the class. Sort the collection using the name field(Natural order).
Refer Demo Code: lesson6_innersort1

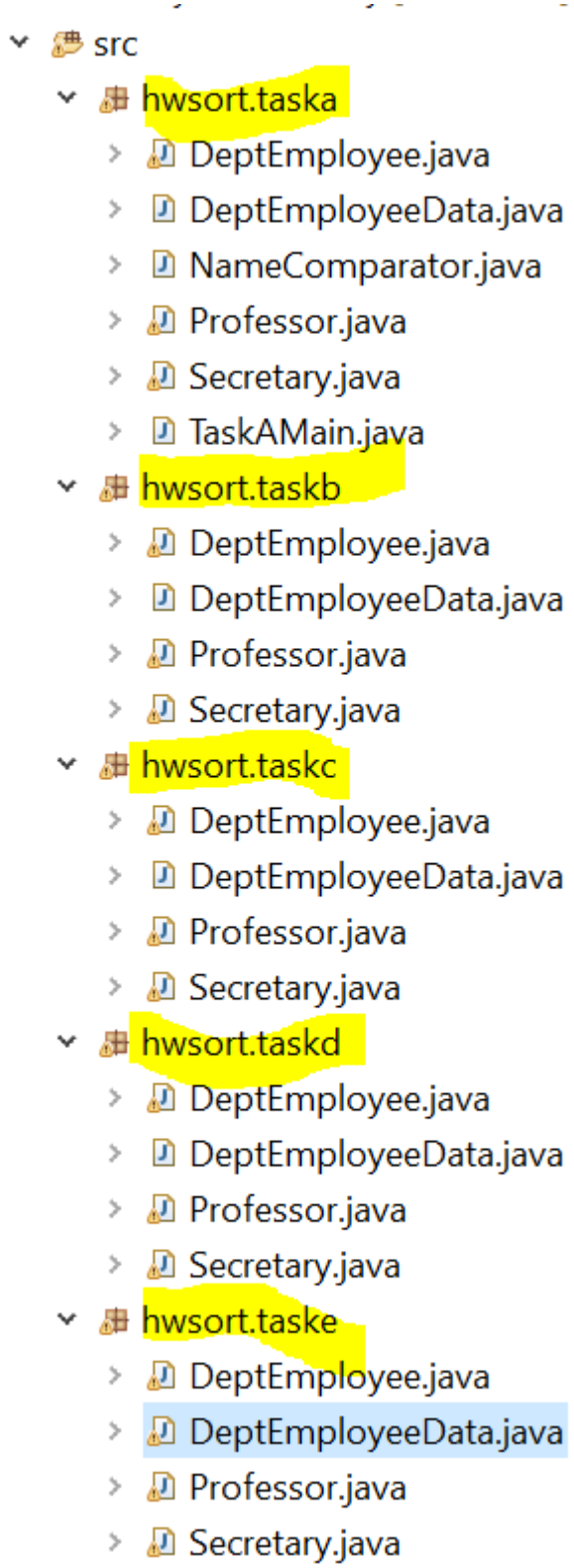
Task B: Sort the DeptEmployee array using the Inner class(Member Inner class) by the name field.
Refer Demo Code: lesson6_innersort2

Task C: Sort the DeptEmployee array using Local Inner class using salary field by reversed order (Descending order).
Refer Demo Code: lesson6_innersort4

Task D: Sort the DeptEmployee array using Anonymous Inner class using name field by reversed order.
Refer Demo Code: lesson6_innersort5

Task E: Sort the DeptEmployee array using Lambda using hire date field by natural order.
Refer Demo Code: lesson6_innersort6

Create a root directory as Lesson-6 in your dropbox. You can upload all the files to your Dropbox directly on or before the deadline. Each task should be in a separate package. See the screenshot below for your reference to create packages in IDE.


src
hwsort.taska
DeptEmployee.java
DeptEmployeeData.java
NameComparator.java
Professor.java
Secretary.java
TaskAMain.java
hwsort.taskb
DeptEmployee.java
DeptEmployeeData.java
Professor.java
Secretary.java
hwsort.taskc
DeptEmployee.java
DeptEmployeeData.java
Professor.java
Secretary.java
hwsort.taskd
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Professor.java
Secretary.java