**CS324: Advanced Programming in Java**

**Homework No. 3**

**Due on Friday 24th September.**

In this homework you’ll be simulating a flight check-in system. You have two object to work with: **Seat and Passenger.**

A Seat object have attributes **of seat number (String type**), and **seat location (String type**). Seat location can be set based on seat letter. A G are Window, D is Middle, B C E F are Isle.

A Passenger object have attribute of Name (String) and PNR (String).

Your program should read **the input given below**, and **create Seat and Passenger objects**, and place it in a **TreeMap where key is a Seat and value is a Passenger**. To allow TreeMap to work with Seat object as a key, you should provide the **comparison in the class (based on seat number**). Both the objects should be **printable i.e. overload toString function**.

Sample Input:

17D Asad AQ98DF

02B Faisal JMUILP

15B Farooq 78KLPX

32A Ahsan OLSIVF

18F Faiza UJ89IK

20C Amna UXDFW0

Sample Output:

PNR: JMUILP, Name: Faisal, Seat: 02B, Location: Isle

PNR: 78KLPX, Name: Farooq, Seat: 15B, Location: Isle

PNR: AQ98DF, Name: Asad, Seat: 17D, Location: Middle

PNR: UJ89IK, Name: Faiza, Seat 18F, Location: Isle

PNR: UXDFW0, Name: Amna, Seat 20C, Location: Isle

PNR: OLSIVF, Name: Ahsan, Seat 32A, Location: Window