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Row.java
 09 Mar 16 7:53
                                                                       Sidan 1/3
import java.util.Scanner;
import java.io.*;
* Represents a row of seats.
* The seats are numbered 0, 1, 2, ...
public class Row {
  private String[] seats;
    * Creates a row with without aisle indication
    * @param size the number of seats in the row
  public Row(int size) {
     // Uppgift A2
    * Gets the name of the passenger at a specified seat
    * @param seat seat number
    * @return the passenger
      // Uppgift A3
   /**
    * Print the names of the passengers in the row
  public void printPassengers() {
     for (int i=0; i<seats.length; i++) {</pre>
        // Uppgift A4
    * Searches the row for a passenger name.
    * @param name Name of the person to be searched
    * @return The seat number or -1 if the person is not found
  public int find(String name) {
     // Uppgift A5
    * Returns a string indicating booked and free seats:
    * Example:
       [. B B . . B . ]
    * B indicates a reserved and . indicates a free seat.
  public String toString() {
     String result = "";
     // Uppgift A6
     return "[" + result + "]";
```

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Row.java
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                                                                       Sidan 2/3
  * Books a seat.
  * @param seat seat number (i.e. 1, 2, 3, ...)
   * @param passenger passenger name
  * @return true if the booking was successful, else false
 public boolean book(int seat, String passenger) {
    if ( ... ) {
       System.out.println("*** Illegal seat number:" + seat);
       return false;
    } else if ( ... )
       System.out.println("*** Seat already booked");
       return false;
    } else {
       return true;
  * Get the number of seast in the row
  * return number of seats
 public int rowLength()
    return seats.length;
  * Save the complete row.
   * Format:
   * First line contains the number of seats (int)
  * Then one line for each seat containing the passenger name.
  * If the seat is not booked the string "none" is written.
  * @param pw an open printwriter
 public void save(PrintWriter pw) {
    pw.println(seats.length);
    for (String name : seats)
       if (name==null) {
          pw.println("none");
        } else {
          pw.println(name);
  * Creates and returns a Row object using information
  * read by a scanner. See the save method for details
 public static Row load(Scanner fscan) {
    // Uppgift B1
```

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Row.java
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   /**
    * Demonstration program for the Row class
   public static void main(String[] args) {
      Row row = new Row(6);
      row.book(3, "Jeltz");
      row.book(2, "Ford Prefect");
      row.book(1, "Trillian");
      System.out.println("Row:" + row.toString());
      System.out.println("Find Jeltz:" + row.find("Jeltz"));
System.out.println("Find Zaphod:" + row.find("Zaphod"));
      System.out.println("\nBookings on this row:" + row.toString());
      System.out.println("\nTry to book an alread booked seat");
      row.book(2, "Arthur Dent");
      System.out.println("\nPassengers on this row:");
      row.printPassengers();
/* Output:
Initial row
                 : [ . . . . . ]
Row with bookings: [ . B B B . . ]
Find Jeltz : 3
Find Zaphod: -1
Try to book an alread booked seat
*** Seat already booked
Passengers on this row:
Trillian
Ford Prefect
Jeltz
```

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Cabin.java
 07 Mar 16 19:55
                                                                       Sidan 1/1
import java.util.ArrayList;
public class Cabin {
   private Row[] theRows;
   private String flightId;
   public Cabin(String flightId, int numberOfRows, int rowLength) {
      ... // Uppgift B2
    * Creates a passenger list i.e. an arraylist with passenger objects
   public ArrayList<Passenger> passengerList() {
      ... // Uppgift B3
    * Creates a sorted arraylist of passenger objects
    * @param list An arraylist with passenger objects
    * @return An arraylist with sorted passenger objects
   public static ArrayList<Passenger> sort(ArrayList<Passenger> list) {
       ... // Uppgift B4
    * Prints a name sorted passenger list
   public void printPassengers() {
     ... // Uppgift B5
   // Other methods ...
```