

HOTEL RESERVATIONS

Using Objects in arrays, complete the following methods.

```
public class Reservation {
    private String name; // last name of the person reserving the room
    private double rate; // room rate for 1 night's stay

    public Reservation() {
        name = "Lepold";
        rate = 99.99;
    }

    public Reservation(String myName, double myRate) {

    }

    public double getRate()
    {

    }

    public String getName() {

    }

    public String toString() {

    }
}

/**
 * Stores reservation objects in an array with room numbers as indexes.
 */
public class Hotel {
    // list[] stores reservations for each room. The index is the room number.
    // All elements are null at the beginning
    private Reservation[] list;

    public Hotel(int numbRooms) {
        list = new Reservation[numbRooms];
    }

    // Displays room numbers and reservation information.
    public void display() {

    }
}
```

```

// returns true if room is occupied
public boolean isOccupied(int room) {

}

// Assigns a new Reservation to the first available room.
// Print out reservation with room number or indicate that hotel is full
public void reserveRoom(String name, double rate) {

}

// Assigns a new Reservation to an inputted room.
// if room is occupied, find the first available room in the array
// Print out reservation with room number or indicate that hotel is full
public void reserveRoom(String name, double rate, int room) {

}

// Find and return number of rooms with a reservation
public int reservedRoomCount() {

}

// find and return the average room rate of the occupied rooms.
public double averageRoomRate() {

}
}

```