

Lösningsförslag, kontrollskrivning 2 PTDC

2013–11–18

```
1. public class DayBookings {
    private String room;
    private String day;
    private boolean[] booked;

    public DayBookings(String room, String day) {
        this.room = room;
        this.day = day;
        booked = new boolean[24];
    }

    public String getRoom() {
        return room;
    }

    public String getDay() {
        return day;
    }

    public boolean isBooked(int hour) {
        return booked[hour];
    }

    public boolean book(int start, int finish) {
        for (int i = start; i <= finish; i++) {
            if (booked[i]) {
                return false;
            }
        }
        for (int i = start; i <= finish; i++) {
            booked[i] = true;
        }
        return true;
    }
}

2. public void printStatistics() {
    int[] count = new int[nbrQuestions + 1];
    for (int i = 0; i < students.size(); i++) {
        Student s = students.get(i);
        int sum = 0;
        for (int j = 0; j < s.getNbrAnswers(); j++) {
            if (s.getAnswer(j).isCorrect()) {
                sum++;
            }
        }
        count[sum]++;
    }
    System.out.println("Antal rätt Antal studenter");
    for (int i = 0; i < count.length; i++) {
        System.out.println(i + " " + count[i]);
    }
}
```

```
3. public class Student {  
    private String name;  
    private ArrayList<Answer> answers;  
    private ArrayList<Integer> correct;  
  
    public Student(String name) {  
        this.name = name;  
        answers = new ArrayList<Answer>();  
        correct = new ArrayList<Integer>();  
    }  
  
    public String getName() {  
        return name;  
    }  
  
    public boolean submitAnswer(Answer a) {  
        if (correct.contains(a.getQNbr())) {  
            return false;  
        }  
        if (a.isCorrect()) {  
            correct.add(a.getQNbr());  
        }  
        answers.add(a);  
        return true;  
    }  
  
    public int getNbrAnswers() {  
        return answers.size();  
    }  
}  
}
```