Rooms.java 3/30/2009

```
Chapter 5: Programming Assignment 4
    Programmer: Mike Brown
                March 30, 2009
    Date:
    Filename:
                Rooms.java
                This is an external class called by the Reservations.java
    Purpose:
    program.
                 It's constructor method recieves the number of nonsmoking and
                 smoking rooms
                 and then creates an array of empty rooms. The bookRoom()
                method accepts a
                boolean value and returns a room number.
* /
public class Rooms
    //declare class variables
    int numSmoking;
    int numNonSmoking;
    boolean occupied[];
    public Rooms (int non, int sm)
        //construct an array of boolean values equal to the total number of
        rooms
        occupied = new boolean[sm + non];
        for(int i=0; i<(sm+non); i++)
     occupied[i] = false; //set each occupied room to false ot empty</pre>
        //initialize the number of smoking and non smoking rooms
        numSmoking = sm;
        numNonSmoking = non;
    public int bookRoom(boolean smoking)
        int begin, end, roomNumber = 0;
        if (!smoking)
            begin = 0;
            end = numNonSmoking;
        else
            begin = numNonSmoking;
            end = numSmoking + numNonSmoking;
        for(int i=begin; i<end; ++i)</pre>
            if(!occupied[i]) //if room is not occupied
            {
                 occupied[i] = true;
                 roomNumber = i + 1;
                 i = end;//to exit loop
        return roomNumber;
    }
}
```