Brookstone B&B V3 Pseudo Code

Class Brookstonev3
Create global variables (bedTypes, roomTypes, mealTypes, numRooms, etc.)

Method Brookstonev3
Call initUI()

Method initUI
Create a menu bar, make with height and width of box and set title

Method createMenuBar
Declare menu bar and menu items for:
File (load, save, quit)
Bookings (find room, view status)
Guest (prepare breakfast, guest list, checkout)
Help (how to, about)
Add addActionListener objects to each menu item.

Method actionPreformed
Call the method that corresponds to the menu item selected.

Method prepareBreakfast
Loop through all the rooms in the roomList
        If room isn't vacant
                Get guest firstname and lastname
                Get guest meal type
                Put guest name and meal into table
Put headings on table
Create JScrollPane for table
Put labels and JScrollPane in panel
Call JOptionPane.showConfirmDialog to show panel

Method findRoom
Create JPanel with 5 labels
Create a JComboBox to make a mull down bar for 3 berd types and 3 room types
Add them to the table
Create a JSpinner for the date (checkin)
Create JSpinner for the date (checkout)
        If user presses ok then get value of the spinner dates
        If the checkin date is after checkout tell the user it's invalid
Call searchrooms

Method bookRoom
Create a combo box with 5 meal types
Create a JPanel with 7 lables (name, number, meal option, credit card etc)
        If user presses okay than add guests information into Jtable
        If the credit card is valid tell the user the checkin was succesfull

Else tell the user invalid card number
Call saveReservations

Method searchRooms
Loop through the rooms
Set dateAvailable to true
       If a room with the right room type and bed type then
              Loop through the checkin and checkout index
                    If room is not available then set dateAvailable to false
              If dateAvailable is true then save the index of the available room
If availRoomIndex is 0 then no rooms are available and give message to user
Set up a table of available rooms
Add a mouseclick handler to remember room selected by user
Display table
When the user clicks on the "Book Room" button the bookRoom method will be called and the selectedRoom object will be booked

Method viewStatus
Loop through all the rooms to find ones booked
       If a room is not booked then leave room null
       Else add the guests name into room
Create headings for table
Create a layout for the table

Method guestList
Loop through all the rooms to find ones booked
       If a room is not booked then leave room null
       Else add the guests name into room
Create a table with just guest name and room
Create a layout for the table

Method checkOut
Create a Jpanel and Jlabel
Ask user for room number
       If they select okay loop through the rooms to find that one
       If the room is not vacant then call checkout code
       Else tell the user the room is vacant
Call saveReservations

Method saveReservations
Create a file so information can be saved
Use the objectoutputsteam to save the data to the file
Flush the file

Method loadReservations
Use the objectinputsteam to take the data from the file
Flush the file
View all the entries

Method initializeRooms
Open configuration file and read number of rooms
Loops through the rooms and creates a room object that has all the things written in the config file
Set the price for room types (standard, premium, deluxe)
Put each of the room objects into the roomList

Method Main
Run initialize rooms

Class Room
Define global varibales for room object (roomType, beds, roomNumber etc)
Define class methods for getting and setting roomtype and number of beds

Method isVacant
Call currentGuest
        If currentGuest is null then return true
        Else return false

Method currentGuest
Set index to current date
        If available dates (at that index) is null, return null
        Else return the guest

Method checkout
Set index to current date
Set checkoutGuest=currentGuest
Start for loop, going backwards looking for the currentGuest
        Increment totalDays for every day the guest spent in the hotel
Calculate total bill (totalDays*roomRate)
Display message to user
Return true
Class Guest

Define global variables for the guest object