



Project Assignment

Data Structures & Algorithms

Colombo, Sri Lanka

Deadline: April 3rd, 2015

Examiner: Dr. Sameh Abdalla

Using your knowledge in Java and Data Structures, write a RealEstate program to keep track of a real estate company's residential listings. The program needs to input and keep track of all the listing information, which is currently stored on 3 X 5 cards in a box in their office.

The real estate salespeople must be able to perform a number of tasks using this data: add or delete a house listing, view the information about a particular house given the lot number, and look through a sequence of house information sorted by lot number.

To help you start, here below is the list of classes you should create:

Class	Purpose	Responsibilities
RealEstate	Main program	Driver program, uses all the other classes to solve the problem; provides graphical user interface; implements actions represented by the interface buttons
ListHouse	Hold the information about a specific house.	Know all of its information; implement <code>Listable</code> ; therefore, provide <code>copy</code> and <code>compareTo</code> methods
SortedList	Maintain a list of <i>ListHouse</i> elements.	See the List ADT specification.
HouseFile	Manage the file of house information.	Get house information from the file; save house information to the file.

- Each group will have to work as a team using the code version control Git / GitHub. Your Git log will have to show that all members have participated / uploaded different pieces of the code delivered.
- When the deadline is due you are asked to hand in to the school reception or your local lecturer, Mrs. Manoja Weerasekara, one page with your group name, names of group members, and detailed info on how to access your group's code repository. In addition, you should expect the school to ask you to present your code structure and coding approach if needed.

Happy coding,

Sameh

Real Estate Program

Next house displayed

Lot Number: 34825

First Name: Mary

Last Name: Jones

Price: 374000

Square Feet: 800

Number of Bedrooms: 2

Reset Next

Add Delete

Clear Find