





second session



Real estate trading company

The purpose of this question is to design the system of a real estate trading company.

In this company, two types of housing are traded and sold, each of which has the following characteristics:

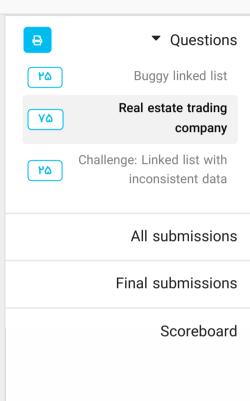
- Villa housing: construction area yard area basic price (per square meter) number of floors address
- Apartment housing: construction area basic price (per square meter) floor number does it have an elevator or not? - Address

The total price for each housing is calculated as follows:

- Villa housing: base price * construction area + base price * yard area * 0.3
- Apartment housing: base price * construction area

Address also includes city, street, street and zip code.

This company is responsible for selling these properties. Each sales file includes the following specifications: type of housing (villa or apartment) - housing itself - amount of commission - terms of sale (cash or bank check)



The manager of this company must be able to:

- 1. Register a new apartment, villa or sales file.
- Y. View information about apartments, villas and sales files.
- ۳. able to see all housing in order of total price. (It doesn't matter if it's a villa or an apartment please don't sort by type.)
- \mathcal{F} . It should be able to perform two types of searches among houses: houses that have a base price less than x and a construction area greater than y houses that are located within z street.

It is necessary to mention a few points:

- 1. Design functions, main and structures according to your taste.
- P. Since the maximum number of housings is not known, use Linked List to manage housings.
- $m ilde{ t P}$. Optimization is very important in this question.

POST AN ANSWER TO THIS QUESTION

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