

Exercise 3.1

Develop a "real estate assistant" program. The "assistant" helps the real estate agent locate houses of interest for clients. The information about a house includes **its kind**, the **number of rooms**, the **asking price**, and **its address**. An address consists of a **house number**, a **street name**, and **a city**.

Represent the following examples using your classes:

- Ranch, 7 rooms, \$375,000, 23 Maple Street, Brookline
- Colonial, 9 rooms, \$450,000, 5 Joye Road, Newton
- Cape, 6 rooms, \$235,000, 83 Winslow Road, Waltham

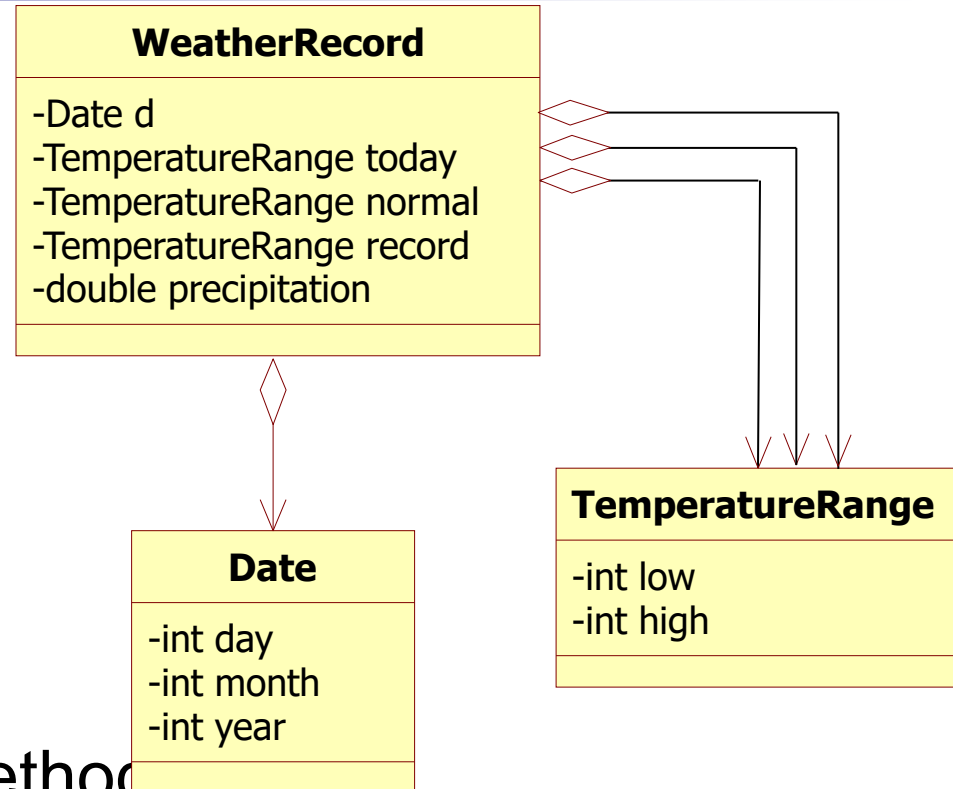
Exercise 3.2

... Develop a program that assists bookstore employees. For each **book**, the program should track the **book's title**, **its price**, **its year of publication**, and **the author**. A **author** has a **name** and **birth year**.

- Develop the following methods for this class:
 - **currentBook** that checks whether the book was published in 2004 or 2003;
 - **currentAuthor** that determines whether a book was written by a current author (born after 1940);
 - **thisAuthor** that determines whether a book was written by the specified author;
 - **sameAuthor** that determines whether one book was written by the same author as some other book;
 - **sameGeneration** that determines whether two books were written by two authors born less than 10 year apart.

Exercise 3.3

- Provides the data definition for a weather recording program.



- Develop the following methods:
 - **withinRange**, which determines whether today's high and low were within the normal range;
 - **rainyDay**, which determines whether the **precipitation** is higher than some given value;
 - **recordDay**, which determines whether the temperature today broke either the high or the low record.

[Solution](#)