Chapter 2 outline:

- Mathematical sequences and Python lists (last week Wednesday)
- Recurrence relations and recursive functions (last week Friday)
- Functions on lists (**today**)
- More about functions on lists; sorting (Wednesday)
- Arrays, vectors, and intervals (Friday)
- Review for test (next week Monday)
- Test on Chapters 1 & 2 (next week Wednesday, Sept 24)

Today:

- Hints on the homework
- Recursive list-to-value functions
- Recursive list-to-list functions

The ideas introduced in Sections 2.2 (last time) and 2.3 (today and next time) include

- Recursion, or defining a object or process self-referentially.
- Decision-making using conditional expressions and statements.
- Storing values in local (temporary) variables so that the values can be reused instead of recomputed.
- Algorithms for building sets and lists recursively.
- Algorithms for processing lists recursively.
  - List-to-value
  - List-to-list
  - Sorting lists

For next time:

Do Exercises 2.3.(2,4,5,9,10).
(All programming—nothing on paper this time)

Re-read Section 2.3 as necessary

(No quiz)