This week (Chapter 2):

- ▶ Abstract data types (Monday)
- ▶ Data Structures (Wednesday and **today**)
- ▶ Programming practices (**today**)
- ▶ Linear sorting algorithms (next week Monday and Wednesday)
- ▶ Disjoint sets and array forests (next week Friday)

Today:

- ▶ "Advanced"/hybrid/abstraction data structures
- ▶ Adapter pattern
- ▶ Iterators

Why iterators?

▶ They provide a universal, consistent interface. (Abstraction)

▶ They do not expose the collection's internal structure. (Encapsulation)

▶ They make great problems, exercising your understanding of a data structure, the client code's interaction with it, and how to process its contents. (Pedagogy)

Coming up:

Due today, Mon, Sept 12: (end of the day)
Read (or finish reading) Section 2.(2, 4, & 5)
Take data structures quiz

Also:
Do "basic data structures" practice problems (suggested by Wed, Sept 14)
Do **"implementing ADTs"** *project (suggested by Fri, Sept 16)*

Due Fri, Sept 16: (class time)
Read Section 3.1
Do Exercises 2.(22–24)
Take sorting quiz