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, Fri, Jan 28: (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 Mon, Jan 31)
Do “implementing ADTs” project (suggested by Wed, Feb 2)

Due Wed, Feb 2: (class time)
Read Section 3.1
Do Exercises 2.(21–23)
Take sorting quiz