

This week (Chapter 2) and next week (Chapter 3):

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

Today:

- ▶ “Advanced” /hybrid/abstraction data structures
- ▶ Adapter pattern
- ▶ Iterators (and other “programming practices”)

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 Fri, Jan 26: (end of the day)

Read (or finish reading) Section 2.(2, 4, & 5)

Take data structures quiz

Also:

Do “Implementing ADTs” project (due Mon, Jan 29)

Due Wed, Jan 31: (class time)

Read Section 3.1

Do Exercises 2.(22–24)

Due Thurs, Feb 1: (end of day) Take sorting quiz