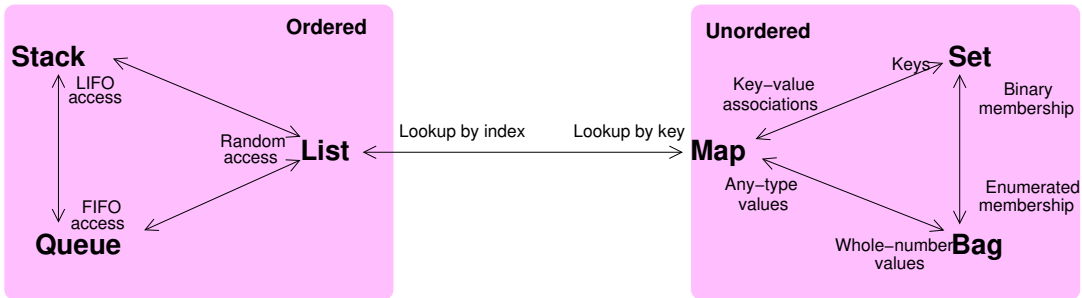


This week (Chapter 2) and next week (Chapter 3):

- ▶ Abstract data types (Monday)
- ▶ Data Structures (Wednesday and **today**)
- ▶ Programming practices (**today**)
- ▶ Linear sorting algorithms (next week Monday 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 27*: (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 30)

Do “**Implementing ADTs**” project (suggested by Wed, Feb 1)

Due *Wed, Feb 1*: (class time)

Read Section 3.1

Do Exercises 2.(22–24)

Take sorting quiz