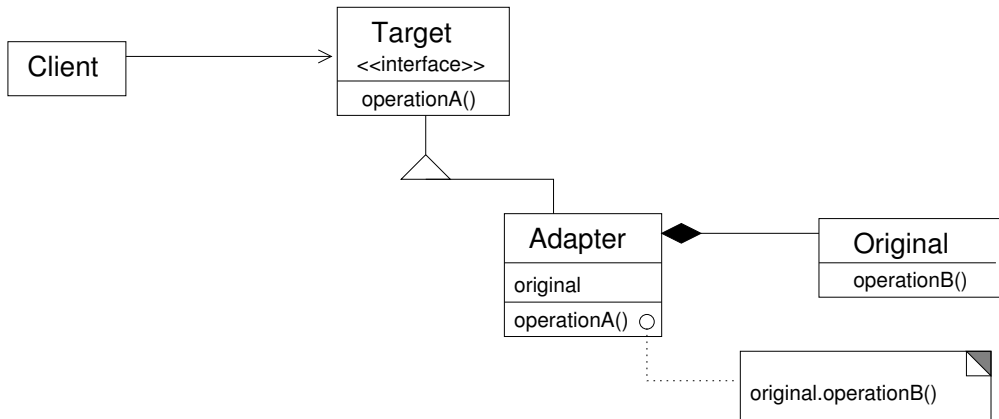


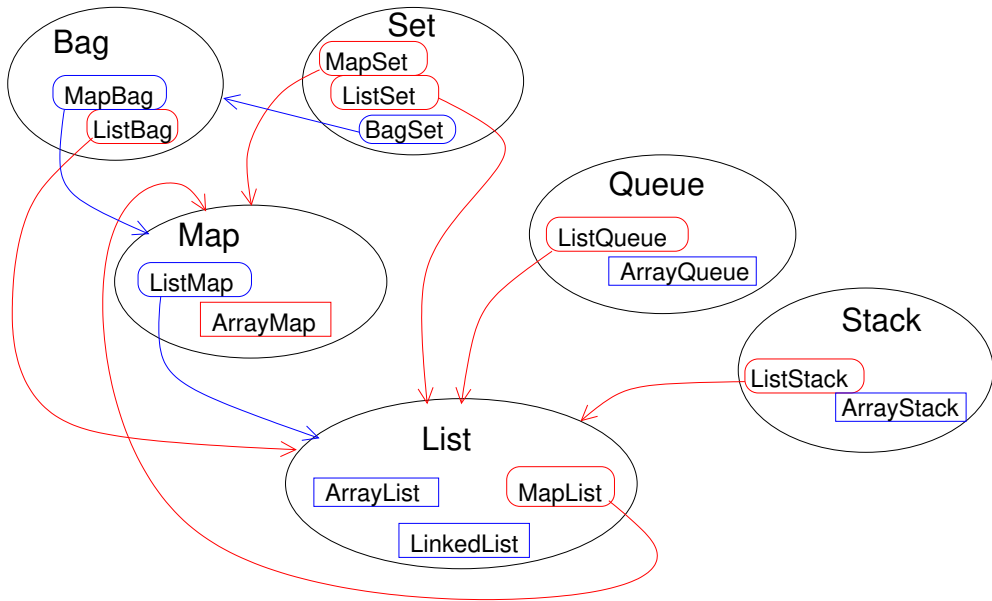
This week (Chapter 2) and next week (Chapter 3):

- ▶ 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:

- ▶ Adapter pattern (lab retrospective)
- ▶ 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:

Do “**Implementing ADTs**” project (due Mon, Feb 3)

Due *Fri, Jan 31*:

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

Take data structures quiz

Due *Wed, Feb 5*:

Read Section 3.1

Do Exercises 2.(22–24)

Due *Thurs, Feb 6*:

Take sorting quiz