Interface & Superclass

- Use `implements` for interface
- Use `extends` for superclass
Generics

- Bounds and Inheritance

- Use `extends`

  - IncrementableList<Item extends Incrementable>
  - OrderedList<Item extends Comparable>
Practice

- A generic linked list in ‘GenericList.java’
  - Each position has one node
  - Each node has a value and a pointer
  - Value can be any kind of data
Practice

- A generic linked list in ‘GenericList.java’
  - 2 Methods
    - (1) Add a new node to the list
    - (2) Transfer the list to a printable string
Practice

- Define a new object: TimeSeriesData
  - Composed by Timestamp and Content
  - Content can be any type of data
Practice

- 2 interfaces
  - Incrementable and Comparable\(<T>\)
  - ‘TimeSeriesData’ should have implementations for these two interfaces
Practice

- 2 new subclasses
  - IncrementableList
    - Increase one second for each ‘TimeSeriesData’
  - OrderedList
    - When add a new ‘TimeSeriesData’, it is in the correct position of timeline