

CS 112 - Fall 2012, Lab 05

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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