



Iterators

- Something we often want to do with this and other "container classes" is do something to all elements — i.e., we want a way to visit all elements, in some (or any) order.
- An object-oriented way to address this is to have "iterator" objects with methods to support "visit every element, one at a time". In Java java.util.Iterator interface. (Look at its methods.)

Slide 3

Slide 4

Iterators, Continued To see how this plays out in code, we could define a simple interface for lists, including an iterator, and implement it using java.util.Vector (something that more or less behaves like an array but can grow and shrink). Let's do that ... (No, it's not a very sensible implementation of the list ADT, but it's one I'm willing to put on the Web as sample code. You'll write a linked-list class as part of Homework 4.)

