



Lists
<ul> <li>List ADT:</li> <li>– "Values" are lists of elements.</li> </ul>
<ul> <li>Many operations possible — add element, remove element, search for element, etc., etc.</li> <li>(Also "walk through elements" with "iterator" — next time.)</li> </ul>
<ul> <li>Implementation:</li> <li>Using an array.</li> </ul>
– Using a "linked list". How do these compare with regard to efficiency of various operations?
efficiency of memory use?

Slide 3

Slide 4

Linked Lists
Think about implementing some basic list operations (add, remove, find) using a linked list. First, draw pictures ...
Then think about what you need to turn the pictures into code. Probably you'll need:

Variables (e.g., something to point to the first "node" (little box).
Classes-within-the-class (for nodes / little boxes, iterators).
Methods for interface.

(Write code.)

