Slide 1

Administrivia

- Reminder: Homework 3 code was due Tuesday. Homework 4 design due today, code next Tuesday.
- Homework 5 due dates posted.
- (Status of midterms, homeworks, grade information.)

Slide 2

Linked Lists — Review/Recap

- Linked lists are a very common (but not the only!) way to implement a list ADT.
- We wrote partial code for a simple singly-linked list of `int`s. First let's finish that (by writing `remove`).
- We might also write a `print` or `toString` method. Or . . .

Slide 3

Iterators

- Something we often want to do with lists 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".

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 arrays.
- 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.)

Slide 5

Minute Essay

- How did the midterm compare to your expectations (with regard to topics, length, difficulty, anything else)?