

Slide 1

Administrivia

- Reminder: Homework 3 code due today.
- Homework 4 due dates on Web (design next Tuesday, code next Thursday).
- Midterm next Tuesday. Review sheet on Web.

Slide 2

Stacks and Queues, Another Way

- We talked about stacks and queues as ADTs. We showed an array-based implementation.
- Could we do a different implementation — with linked lists? (Of course. Let's sketch some code.)

Slide 3

One More ADT — Priority Queue

- Value — list of elements, of some type we can put in order.
- Operations:
 - Add element.
 - Remove element with lowest (or highest) value.
 - “Is empty?”

(Look at game framework `PriorityQueue` interface for a slightly different, but equivalent, list. You will write one of these for Homework 5.)

- How to implement? (Unordered list? List kept in order by value? Compare order of magnitude of “add” and “remove” operations.)

Slide 4

Minute Essay

- None — quiz.