

Slide 1

Administrivia

- Reminder: Homework 3 design due today, code Thursday.
- Reminder: Quiz 3 Thursday.
- (Review minute essay from last time.)

Slide 2

Abstract Data Types

- “Abstract data type” (ADT) is defined as
 - A set of values.
 - A set of operations on those values.
- In other words — something that stores data (in an unknown form) and provides a standard interface for dealing with it.

Stack ADT

Slide 3

- Value — list of elements.
- Operations — push, pop, “empty?”
- Implementing this? might be a good example of
 - Defining a (generic) interface.
 - Writing a class to implement it (using arrays — for, um, fun? practice?).
 - Working with exceptions.

Queue ADT

Slide 4

- Value — list of elements.
- Operations — enqueue, dequeue, “empty?”
- We could implement similarly to what we did for stacks . . .

Minute Essay

- What are you finding most interesting about the homework? Most challenging? Are you also trying some of the practice problems, or otherwise writing Java programs other than the homeworks?

Slide 5