

# Programming Languages and Techniques (CIS120)

Lecture 9

Feb 1, 2012

Finite maps

# Announcements

- Homework 3 is available on the web
  - Due Monday at 11:59:59pm
  - Practice with BSTs, generic functions, abstract datatypes
- If you added CIS 120 recently, verify that you are in our roster database by checking your scores online.
  - If you get feedback about your scores, you are in our database.
  - If not, please send mail to [tas120@lists.seas.upenn.edu](mailto:tas120@lists.seas.upenn.edu)
- Midterm 1 will be in class on Wednesday, February 15<sup>th</sup>

# Finite Maps

An example of a generic, abstract type

# Motivating Scenario

- Suppose you were writing some course-management software and needed to lookup the lab section for a student or TA given the student's PennKey?
  - Students might add/drop the course
  - Students might switch lab sections
  - Students should be in only one lab section
- How would you do it?

# Demo: Implementing Maps with Lists

Map.ml