









Homework for Today!!

- 1) Sign up for mailing lists (immediately)
- 2) Project #1: (read before section tomorrow)
- Preliminary Survey: fill out by evening of Friday September 29th

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- 4) Information Sheet: bring to lecture on Friday, September 29th
- 5) Reading in Weiss (see next slide)

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Reading

- Reading in Data Structures and Algorithm Analysis in Java, by Weiss
- · For this week:

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- Chapter 1 (review) Mathematics and Java
- › Chapter 3 (Project #1) Lists, Stacks, & Queues
- > Chapter 2 (Topic for Friday) Algorithm Analysis

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Bring to Class on Friday:
Name
Email address
Year (1,2,3,4)
Major
Hometown
Interesting Fact or what I did over summer/break.







Picking the best Data Structure for the job

- The data structure you pick needs to *support* the operations you need
- Ideally it supports the operations you will use most often in an *efficient* manner
- Examples of operations:
 List ADT with operations insert and delete
 Stack ADT with operations push and pop

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Terminology

- Abstract Data Type (ADT)
 Mathematical description of an object with set of operations on the object. Useful building block.
- Algorithm

 A high level, language independent, description of
- a step-by-step process

Data structure

- A specific family of algorithms for implementing an abstract data type.
- Implementation of data structure
 A specific implementation in a specific language
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