

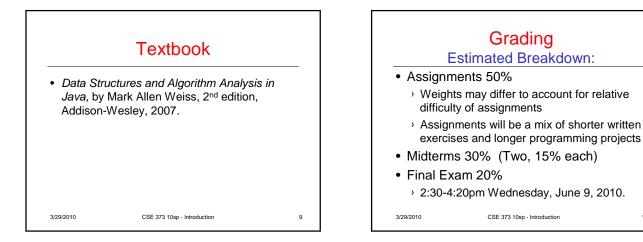
• Eclipse is recommended programming environment.

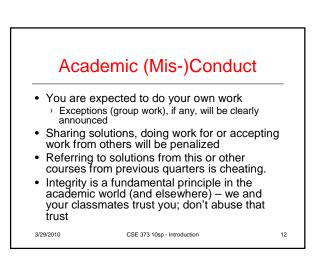
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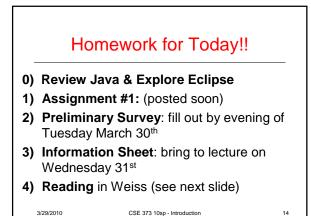


Deadlines & Late Policy
Assignments generally due Thursday evenings via the web
Exact times and dates will be given for each assignment
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Ate policy: 25% off per 24hrs late
Note: ALL parts of the assignment must be received by that time (may require you to make an electronic version of written assignments).
Talk to the instructor if something truly outside your control causes problems here)



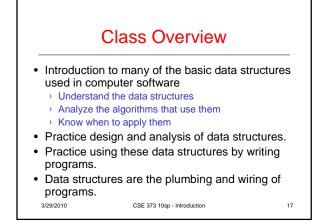
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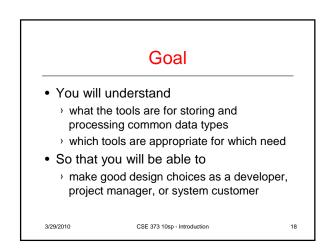
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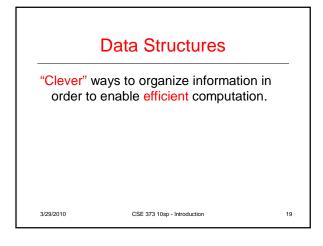
Reading Bring to Class on Wednesday: • Reading in Data Structures and Algorithm Name Analysis in Java, by Weiss Email address · For this week: • Year (1,2,3,4) > Chapter 1 – (review) Mathematics and Java Major Hometown > Chapter 3 - (Assign #1) Lists, Stacks, & Queues Interesting Fact or Chapter 2 – (Topic for Wednesday) Algorithm what I did over Analysis summer/break. 3/29/2010 CSE 373 10sp - Introduction 15 3/29/2010 CSE 373 10sp - Introduction

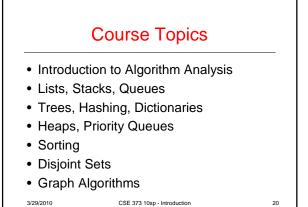
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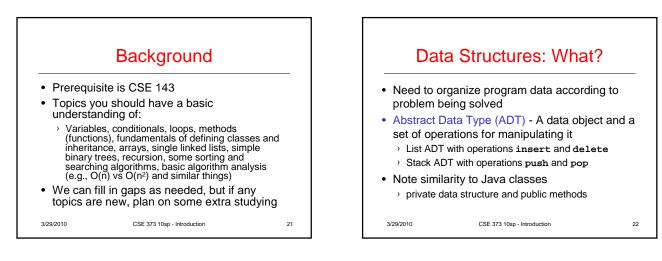


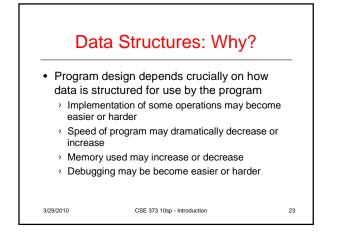


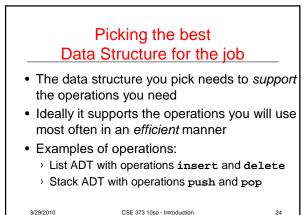
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Terminology

- 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 organization of data and family of algorithms for implementing an abstract data type.
- · Implementation of data structure A specific implementation in a specific language 3/29/2010
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Terminology examples

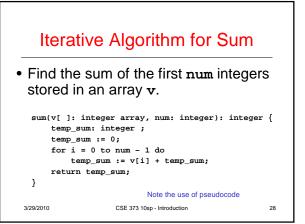
- A stack is an abstract data type supporting push, pop and isEmpty operations
- · A stack data structure could use an array, a linked list, or anything that can hold data
- One stack implementation is found in java.util.Stack

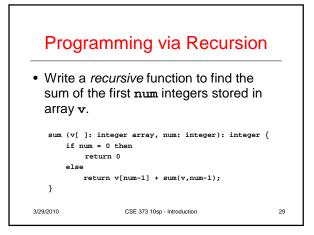
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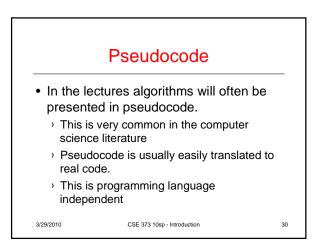
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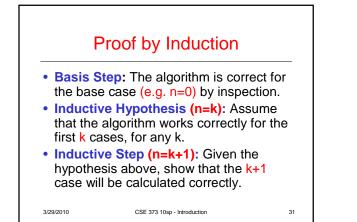
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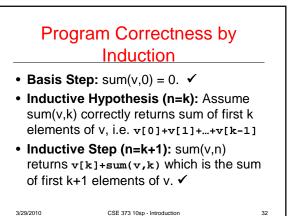
Algorithm Analysis: Why? Correctness: > Does the algorithm do what is intended? • Performance: > What is the running time of the algorithm? > How much storage does it consume? Different algorithms may correctly solve a given task > Which should I use? 3/29/2010 CSE 373 10sp - Introduction 27











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