

eeCS
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DATA STRUCTURES AND ALGORITHMS

Discussion slides for week of October 1, 2007

The University of Michigan

Agenda

- *Inheritance / Polymorphism review*
- *Access: public, private, protected, friends*
- *Circular dependencies and forward declarations*
- *Tree, Binary Trees, Binary Search Trees*

Inheritance and Polymorphism

- Allow us to specify *relationships between types*
 - Abstraction, generalization, specification
 - The “is a” relationship
 - Examples?
- Why is this useful in programming?
 - Allows for code reuse
 - More intuitive/expressive code