

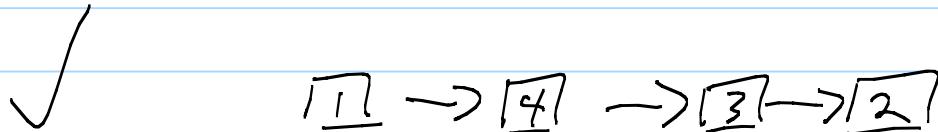
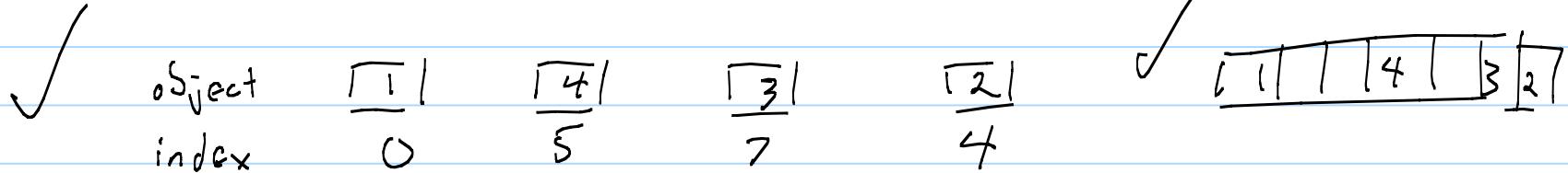
CPSC 220

Note Title

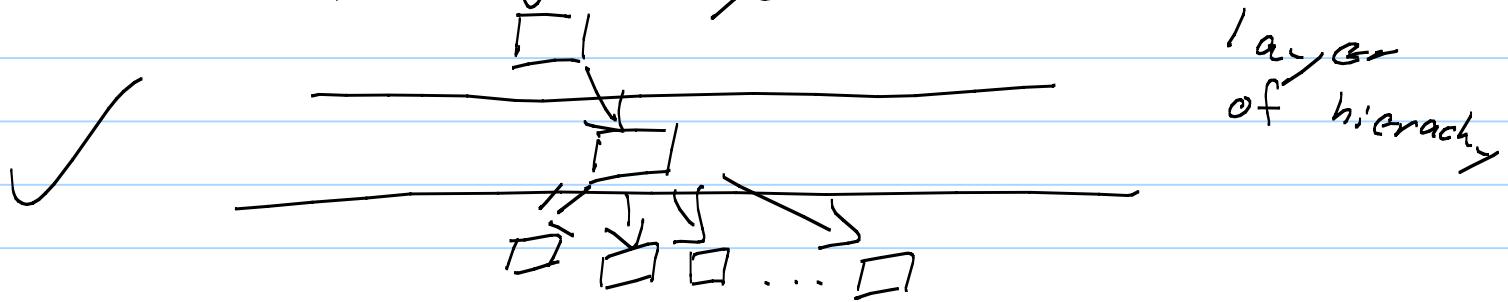
8/31/2009

Data Structure Definitions

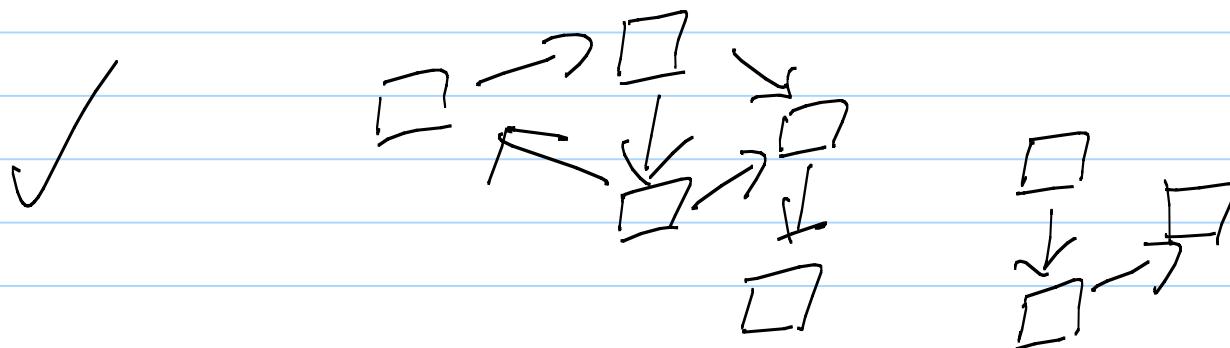
List: series of indexed objects
where order matters



Tree: a hierarchy in which each node has only 1 node referencing it in the preceding layer and an unlimited number of nodes it is referencing in the following layer



Graph: a structure in which any node can point to any non-negative integer number of other nodes



Types of Linear Structures

List:

Linked List

Doubly Linked List

ArrayList

Sorted List

Unsorted List

Circular List

Stack:

— Array Stack

Linked Stack

Queue:

ArrayList Queue

Linked Queue

Circular Queue