CS180- Linked Lists

Announcements

- Lab will be on Wednesday this week!

2/7/201

-HW due Tresday by midnight

-Ch. 3 Paroto capies are at front of room

- Text book is now available!

Recap of Arrays (Ch 3.1 of text) Limits not at all flexible - Size is fixed - inserting + moving is difficult - I data type - acces is unrestricted

Linked Lists collection of nodes that - form a linear ordering. 128 263 ORD head = head snext > hext; MSP 587 Functions (very stripped down version) What might we went to do? insert front delete front I front - return a reference to date Constructor destructor empty

Implementation - Nodes

We want a node to store two things

-data

-pointer to next

template

Code: Need our node class template <typename Object>
class SlinkedList ? Private: class SNode { private:
Object _elem;
SNade < Object > * next;

Implementation - List
What private data do we need?

In private section.

SNade < Object > 4 head;

(switch to Slinked List. cpp)

Doubly Linked List
head
IMSP STLIFT BOS TI

Implementation What changes from Slinked List?