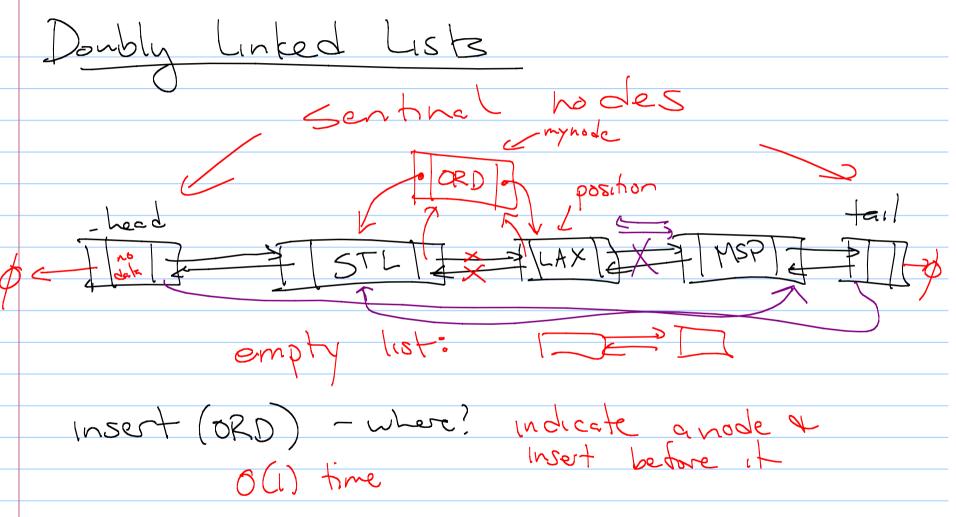
CS180 - Licts 10/21/2011 Note Title nnouncements Program t will be up Vector.h Isn't updated due next Thursday - No class Monday - Reading assignment: read 602 (sections

operator [7:00) Motivation: insert in vectors is slow! (Running time?) O(n) Idea: If I know where the element should go, inserting should be easy.

Nodet made = new Node :-



Problem: Pointers! What do we need in order to know where we should insert? Solution: Wap " Nodes inside a class. Write functions which allow restricted pointer operations. An iterator will give the user a "pointer", but with a heavily controlled Etructure.

(So they can't touch nodes directly.)

Dono seg fault

Compromise: Functionally versus into encapsulation

STL functions My of iterators a list functions. list <int> :: lerator It;

Code: 2 internal classes private: List data: Node\* - next Node\* - prev Object - Lates int\_512e', Herator class (public) private: Nodet \_ current;

Circularly linked sentinal head