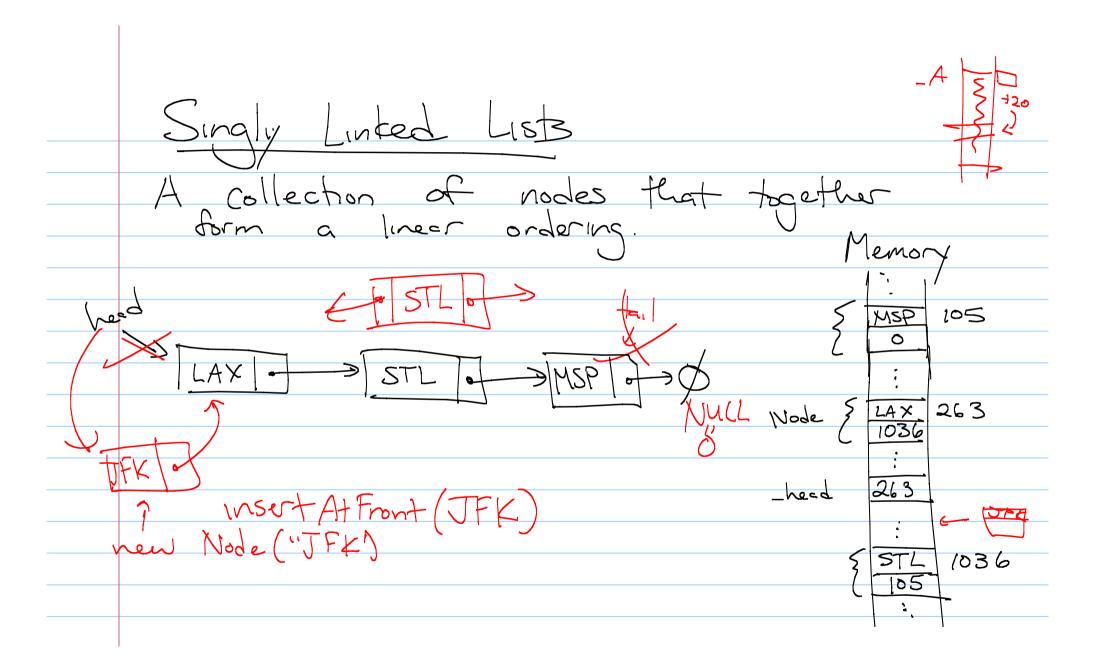
Note Tit	SISO - Basic Linked Lists Basic Linked Lists
	Λ
	Announcements
	-turing is dead
	-HWD is now on paper, due next Monday
	Monday
	- No lab tomorrow _ Monday
	lab on Friday

Kecap of arrays (Ch 3.1 of text) - not very flexible

• sizel is fixed at creation

• I kind of data

• inserting + moving can be difficult Q: How would we insert an element in the middle of an array? ex: insert (20) in sorted order? 6 11 25 26 31



Functions What might we want to do? nomove find extend (to combine lists) Sort Search

We want nodes which store what? Node class: data & could be any type pointer to next templates What will our private data be?

In Linked List class) - head (a pointer to a nide)

Code - Node class & private data In book, use F template & typename Object > Class SLinkedList & class SNode { private:

Object _elem;

SWode < Object > * next;

no functions or public data SNode Kobject > 4 _head;

- h fle bool empty () (onst; Const Object & front () const; Void add Front (const Object de); Void remove Front ();

Constructor - cpp file template typename Object > SLinked List < Object > :: SLinked List () } -head = NULL", - head = 0; template typename Object>: SLinked List(): head()[] empty

template < typename Object >
bool SLinked List < Object > : empty () {
return (head == NULL);

template <typename Object > const Object & SLinked List & Object > :: 6 front () return _head > _elem ",

remove Front late (typenane Object) void SLinkedlist < Object > : remove F SNode (Object) = _head > _next;

Destructor

add Front