Note Tit	5180 - End of C++, & Simple linked lists	9/11/2013
	A-0.12	
	Minouncements	
	Announcements -HW due Monday	
	<i>)</i>	

Another Isshe: operator = any 265 MyFloat Vec c; c=a° What does this do?
- Shallow copy
- memory (eak)

C= a=a; Solution: rewrite the "=" operation My Float Vec Operator = (ovot My Float Vec & other) { if (this != Sother) }' -Size= other. Size; for (inti=0; ixsize; i++)
-A[i]= other.-A[i];

Recep: Housekeeping Functions D Copy Constructor Operator = Destru Ctor why? - memory leaks - deep copies

Enum: user defined types enum Color ERED, BLUE, GREEN 3;

Color sky = BLUE;

Color grass = GREEN;

of (sky = = BLUE)

contice "It's nice out today!" << end!

Structs - Simple classes

Useful for simple collections of objects

Ex: enum MealType { NO\_PREF, VEG, REGULAR, KOSHER}; struct Passenger &
string vame;
Mealtype meal Pref;
bool is Freg Flyer.
String freg Flyer No;

We can then create instances of a struct in the program:

Passenger pass = 2 "John Smith", VEG, true, "1234"?

pass. meal Pref - KOSHER;

More Complex

Passenger \* p;

p = new Passenger;

p > name = "Barbara Wright";

p > mealPref = REGULARY

(\* p). is Freq Flyer = false;

(\* p). freq Flyert No = "None";

we want a tunction. to work multiple classes - eg int and -we can template the variab (6) a, -(a < b else

Important:

will work for any class with appropriate operators! = int = 53; int = 53; int = 53; int z = min(x, y); string a = "Hello"; string b = "Goodbye"; cout << min (a,b) << end]; min (x,a); Lerror

Templates in classes These work in classes, also. Important in data structures, so our code will make a list of ints or strings or lists! My List <int> list1; My List < string > list2; Says what Tis for this variable instance of class ion of nodes that together form Memory 122 Node 263 head 825 -> - head 1263 -1025

this structure! us is not the same as write later.
(nor is it like Python lists) This linked Structure will show up in a lot of our data structures -similar to arrays as a building block. Implementation What is a node of how do we code it? or separate struct or class Private data? -head-pointer to a node -size (?) Functions? add to beginning

template etypename Object? class Slinked List 3 class SNode SNode & Object > + Lead; Functions (listed in ah file) bool empty () const; const object & front() const; void add Front (const object & e); void remove Front();

Next: Let's code it (Will post hattest file on Schedule page.) -head 12 remore read