Note Tit	5180 - Offer bits of C++ 10 10 10 10 10 10 10 10 10
	Announcement
	- Program I due Monday (the 19th), 2011 - Submit (ab by Sunday
	- Submit lab by Sundey

· New « arrays « deletet - Destructor

Copy Constructor
Consider Hat My Int Array class. What if we have 2 x set a=b? By default, complet sets each private a. Size = 5,512e

Copy Constructor To avoid shallow copies we need to make a copy constructor function. (const My Int Array & other) A = new int _ size j; for (inti=0: i' _ size ; i++ A [] = other. A [i];

Another Isshe: tArray C; Z what does this do? In a class, by default sets each disprivate variable equal to corresponding variable in 19. a copy constructor)

Solution: rewrite the "=" operation Int Array Operator = (ovot My Int Array & other) { House keeping Functions book generally doesn't do Enum: user defined types
enum Color {RED, BLUE, GREEN };

Color sky = BLUE; Color grass = GREEN;

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

int ij

Structs - simple class

useful for simple collections of objects X: enum MealType ENO_PREF, VEG, REGULAR, KOSHERJ; 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,

Passenger offer = 2 "Jane", REGULAR, false," "} pass. meal Pref - KOSHER;

More Complex: use as a pointer

Passenger* p;

p = new Passenger;

p > name = "Barbara Wright";

p > mealPref = REGULARY

(*p). is FreqFlyer = felse;

(*p). freqFlyer No = "None";

e want a incton Work It ple classes - eg int and - can template the vario mu (oats ename a aLb else return b;

important:

mortine for any class with appropriate operators! int x = 53; int y(96); int z = min(x,y); Class with Δ string a = "Hello"; string b = "Goodbye"; cout << min (a,b) << end!;

Templates in classes rese work in classes, also. mportant in data structures, so our code will make a list of ints or strings or lists! int main () Mcreate a List List (int) my list; I—creates a list of ints List < string > names;

Error Handling