CS 2100

Vectors

Recap - Due tonorrow: HW3 - Due Sunday: Lab 5 - Due Monday: - Due Monday:

Reading (2 Sections)

- Next HW: let's take a
look at it! may work of permer submit . h & read me - Git instructions: See webpege, + either try today or this weekendy or question: 15 Carts Pasters Last time: Queues Operations; -pash (not stack)
-pop
-front - empty = 513e Trade-off (Uses: 5 mple + (2st:0(1) not much access

Today: Vectors Similar to Lists in Python (.will see in 35 of zyBook) Our implementation: -array based Main functions 
See (STZ) because there
are a lot of them! Private data (in (++ version): Object to A; MM ??
Int Capacity; MM ??
Int 52, 0; 1 7 7 To think through: myvec. insert (2, 'c');

Myvec [2] = 'c';

How to insert if we don't

want to lose date?

put c' between 12 A: | h'e' | 1' | 1' | 0 | 0 | 1 | 273 (US 6 7 (8) Size = 5 cap = 8 in class -Dopad operator [] (int i) { 3 return A[i]s void insert (int i, Object o) {

for (int j=52; j>i:j--)

A[j]=A[j-1]; A[i] = o;

Similarly, erase:
my vec. erase (3); undereath: Ste - 6 Capacity = 11 crose (int index) { for (int i=index; i4sz-1);i+) A [i] = A[i+1] 3 57 -- 3 Forgot: error handling

Another issue: a what if we exceed the capacity? Increase capacity, push-back + insert.
Will double array 5/7e in fan; If (SZ = = capacity) {

capacity = capacity + 2;

Object \* temp = new

Object [capacity];

// for loop to copy data A: 11/1/1 A/STE-CEP Finally, don't forget house looping, Will look like Array Stack or Array Queue

Next time: Reading on both:
-array-based lists
-doubly-linked lists Implementation: - Vectoro h