CSZ100

More Vectors

Kecap - HW due via git, Saturday (partner allowed) - Lab this week (over Vectors) no prelab - (due by Sunday) - Midtern 1 herrt week review on Monday exam on Wed. no lab next Thursday - Next HW- due after midtern, overvectors

Last lecture Vectors: · basically a more robust array
in corporates list-like
Runchonality
makes room automatically
if it gets full Tichne. Private data:

Private data:

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Capacity of Objects cap

size = one # larger than last

entry in array

capacity > max possible size

Today: First pen a paper coding to get started. (~10 or 15 minutes) If you finish on paper, try to implement! 2 cases: -full: double capacity - not full: more everything Jown de

/* function to return true if the vector is empty (regardless of capacity

}

bool empty() const {
 return size == 0;

Then: Still lots to code! push_front +push_back: easy! (use insert) erase (index ?):
(on HW) pop-front + pop-back: House keeping: (60 over code - will post after c(ass) Next time: Finish code telk about by-0 insert: O(n) amotized analysis:

push-back

if full: O(n)

if not: O(i) "average" run fine: O(1)