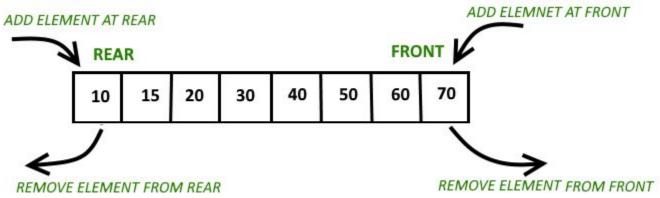
Lab 8

Partnering Up

- Each partner does the **same** provided lab for the week
 - Not working together, both partners need to individually complete and demo the lab
- Still need to write test cases and report for partner like normal
- Don't forget to turn in the correct files
 - Test file that you personally wrote
 - Report that you personally wrote
 - Do **not** need to turn in files that your partner wrote
- One more opportunity to turn in the correct files
 - Resubmit any files (if need be) by the end of lab today to get credit for your report/test file

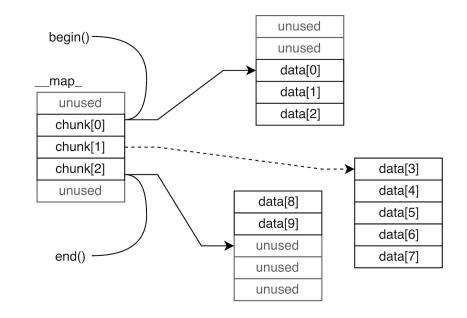
Deque



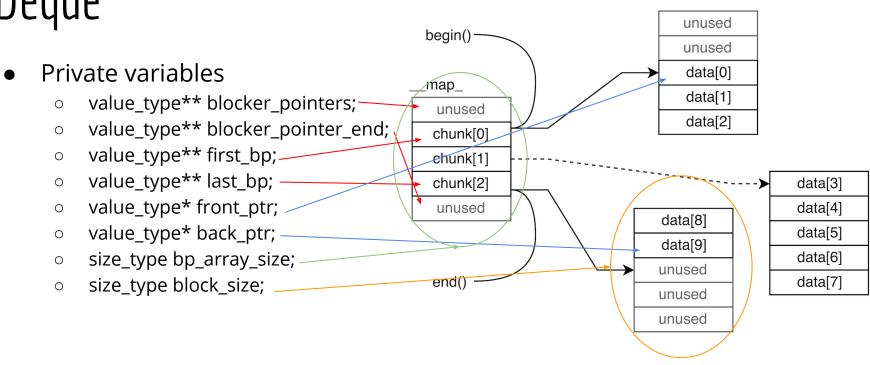
- Double ended queue
- Insert and remove from either side of the data structure

STL Deque

- Pointer to an array of Item pointers
- Can think of the data blocks as being "linked" to create one deque

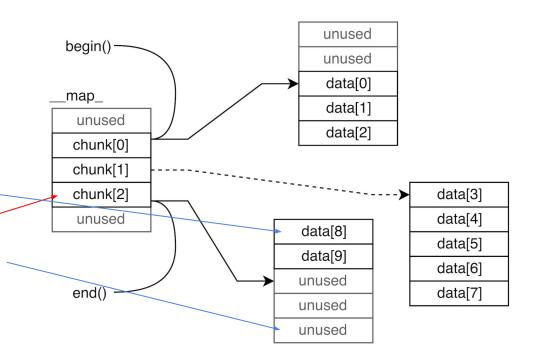


Deque



Deque Iterator

- Pointer that iterates through your deque
- Private variables
 - value_type* cursor;
 - value_type** current_block_pointer;
 - value_type* current_boundary;



Help/Notes

- Reserve() adds slots to both side of the deque
 - Important for push()
- Read the comments, they are there to help guide you through the lab
- Add this line to copy constructor of deque
 - o bp_array_size = 0;
- Write deque first and then deque_iterator
 - o push() and pop() first

Provided Files

- Deque
 - deque.h
 - Will implement your deque in this class
 - deque_iterator.h
 - Will implement your deque_iterator in this class
 - deque_test.cpp
 - Test file
- No need to create any files

Compile/Demo

- Only one cpp file
 - g++ deque_test.cpp
 - o ./a.out
- No official test file for demo
 - Program needs to run through 10 tests

Don't forget

- Demo code to me
 - Either today or next week
 - Must compile and run on linux servers
- Submit code to camino by the end of next lab
- Comment code
 - Loops and conditionals
- File with description of lab is on Camino