Lab 8

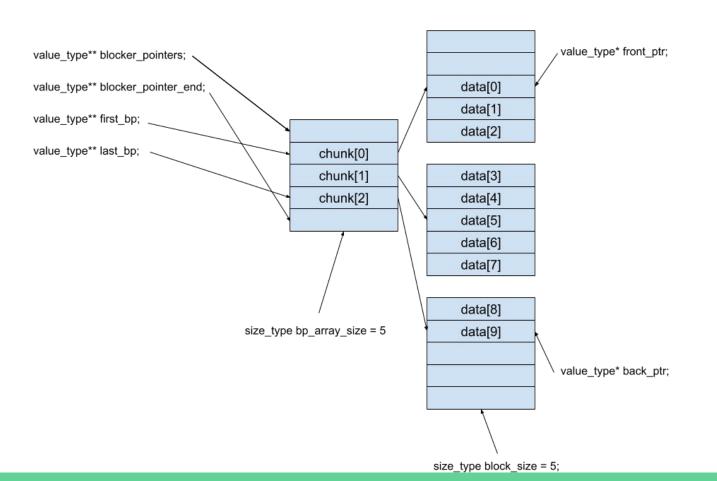
Deque

- Stack + Queue
 - Add/remove front; add/remove end. No insertion/deletion in the middle.
 - For this lab you have a slightly different variation

Deque.h

Private Variables

- value_type** blocker_pointers; // Pointer to front of the entire chunk
- value_type** blocker_pointer_end; // Pointer to end of the entire chunk
- value_type** first_bp; // Pointer to front of the existing pointer
- value_type** last_bp; // Pointer to end of the existing pointer
- value_type* front_ptr; // Pointer to front of the existing data
- value_type* back_ptr; // Pointer to end of the existing data
- size_type bp_array_size; // Capacity for the chunks
- size_type block_size; // Capacity of each block



Deque_iterator.h

- Iterates Through the Deque
- Private Variables
 - value_type* cursor; // Pointer to the data
 - value_type** current_block_pointer; // Pointer to the chunk
 - value_type* current_boundary; // Pointer to the very end of the last block

Hints

- Reserve() adds slots for the deque
 - o push()
- Read the comments
- Implement deque.h first, then deque_iterator.h
 - o push() and pop()

Provided Files

- deque.h
- deque_iterator.h
- Write your implementations in the .h file
 - Style recommendation (not required for lab)
 - When you <u>have to</u> write implementation details inside .h files (i.e. templates), add "_impl" suffix.

Don't Forget

- Demo code to me
 - Today or next week
 - Must compile and run on linux servers
- Submit your code before deadline
- Comment code
- File with description of lab is on Camino
 - Submission guidelines