

Data Structures

Lab 4 Assignment (Queues)

Due Date: 7/7

1. Inside the circular queue class (array implementation), write a function to print all the queue elements by the order they were enqueued to the queue (starting from front to rear, not from 0 size).
2. Write the main function for the queue and try to enqueue, dequeue elements to and from the queue, and call the peak function after each dequeue to check the first element in the stack, and the print function you created.
3. Fix the isEmpty and isFull functions as follows:
 - a. isEmpty: to print that the queue is empty if it is, before returning 0 or 1.
 - b. isFull: to print that the queue is full if it is, before returning 0 or 1.
 - c. Try to enqueue and dequeue elements until both functions print something (to try them out).

NOTE: Please submit the assignment in one c++ file with only one main function.