

Homework 4

Due Tuesday October 27th before class time

It is possible to implement queues using an array such that both `enqueue`'s and `dequeue`'s take $O(1)$ time, *in the case when we know the maximum size of the queue at construction*. Write the Java code for this class `CQueue`. The constructor should take an integer that represents the size of the queue. When attempting to insert in a full queue, the `enqueue` should print an error.

You do not need to implement the code in Java (unless you want to), just to write it on this sheet. Write legibly, and leave space between methods. Make sure you comment your code so that it can be read and understood easily.