Lab 5 – Ben Joye
9/28/18

Requirements Analysis:

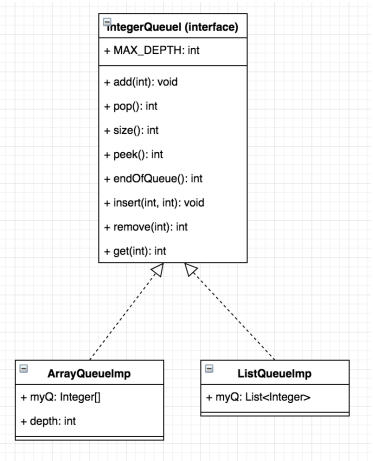
Functional:

- As a user, I must be able to able to input which implementation to use so that the right constructor is called.
- As a user, I should be able to keep choosing functions so that the program doesn't end until I input 8.
- As a user, I must be able to input 1-7 so that I can add, get next, peek at front, peek at back, insert, get, and remove from the queue.

Non-Functional:

- Both implementations must have an add function.
- Both implementations must have a pop function that returns the first value in the list.
- Both implementations must have a function that returns the size of the list.
- The system must be able to handle a list of up to 100 values.
- The system must print list in the correct order to the console.
- The program must be written in java.
- The program must run on unix.

Design:



Testing:

- Both the list and array implementations work identically
- If you try 1,2,3,4,7, they will not run when the queue is empty
- You can only get and remove positions that exist
- Input 8 ends the program

Deployment:

- On unix:
    - Compile: “make”
    - Run: “make run”