I used two main data structures in my program. The main structure is a bin structure that holds the number of bins created and a linked list that holds all the bin information. Each bin node in the linked list has a FIFO queue that holds the items deposited in the bins as well as the maximum capacity of the bin and the amount that the bin is currently holding. I used a linked list because it could be grown to any size and the maximum number of bins is relatively small. (1000 is the maximum bins) I chose a FIFO queue because it not only would keep all the data in order, it was also already written for the previous project. I was able to reuse the FIFO queue from project 4 with relative ease.

