Comp 2000: Data Structures, Fall, 2019

{your name}

Assignment: Bag ADT

**ADT Analysis**

1. Given the functional definition of a Bag ADT (unordered, allows duplicates), is this an appropriate implementation? Why or why not?
   1. Yes, the Bag is unordered and allows duplicates and we can manipulate the data
2. In general, how useful is the Bag data structure? Why or why not? Can you think of other uses aside from those discussed in the applications chapter?
   1. The bag ADT has limited use cases, as it is in a random order. You could use the Bag in order to quickly traverse
3. Can the Bag ADT accept/handle null entries? Why or why not?
   1. The bag adt can accept/handle null entries. It will just add null entries.

**ADT Summary**

1. Where did you have trouble with this assignment? How did you move forward? What topics still confuse you?
   1. I had some trouble figuring out exactly how bags worked with the nodes, and the slides with the pictures of the nodes were very helpful.
2. What did you learn from this assignment? (Please be specific)
   1. How certain functions might look in other ADTs, such as union/intersect/difference.
3. How could this assignment be improved in the future?
   1. Instructions were clear and the algorithms were extremely helpful.