Sonny Dinnetz

CSCI-430

Homework 1

The approach in question 3 is unquestionably more data oriented. Encapsulating all of the data access functions into a purpose built PersonList class is OOP 101 and would lead into a much more cleanly organized program that the process driven approach of question 2.

Without being an expert on java’s built in LinkedList, I’m almost certain that I wouldn’t add any features to it regardless of how easy it may make developing a child class of it. LinkedLists are not complicated data structures by intention, expanding on it without careful consideration of the impacts across the entire language could have significant consequences. If an expanded feature set is needed to implement the PersonList, I would question whether we should be using a LinkedList long before I would consider actually changing the LinkedList itself. For example, a built-in manner of ensuring the ID was unique could be useful, but in that case I’d just swap from using a LinkedList to one of the many data structures that have that feature from the outset.