README

Assignment #4: Tweet Manager Part 2

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I compile my program using a make file and the e -Wall -std=c99 flags. To run the program initial type "make" to crate the output then use the command "./A4" to run it. A limitation of this program are the defined sizes for tweets and usernames being 141 and 51 respectively. Using valgrind all memory leaks were eliminated. Each required function was used at least three times in main. The main is in the file named testA4.c

Enqueue: Adds tweet to end of the list.

Dequeue: Removes tweet from the beginning of the list

isEmpty: Tests if list is empty, returns 1 if true 0 if false.

printQueue: Prints the queue.

sortID: Sorts list based on user ID in ascending order.

sortUsername: Sorts list based on ascending username ie. A, B, C ect.

Reverse: Reverses the list.

createTweet: User inputs username and tweet, id calculated automatically, returns pointer to list head with node added.

addNodeToList: Used to add a node to list in createTweet.

createNode: Takes in user input to make a new node, function returns the pointer to that node.

bubbleSortID: Using the bubble sort algorithm to sort tweet IDs.

bubbleSortUserName: Using the bubble sort algorithm to sort usernames based on ASCII values.