

Question 1.

Re-do Problem 1 from the 2023 midterm, with one change: put the declaration of `structs` in a separate *h* file, the implementation of `append` in `linkedlist.c`, and implement testing in `test_linkedlist.c`.

Question 2.

Implement a `validate_list_length` function from the linked list. The function should return 1 if the length of the linked list matches the recorded length (by going through the list and counting the nodes), and 0 otherwise.

Question 3.

Implement a `delete` function for the linked list. The function should take an index of a node that needs to be deleted, and update the linked list to remove the node. Make sure to `free` the removed node.