

Design for Assignment #5

- (5 pts) How did your design for the Linked List in Assignment #5 change during implementation?

During implementation, I was forced to change the way I treated the linked list in order to use the sort algorithm I derived. Instead of treating the list as a series of objects I copied it into an array to manipulate it easier. Additionally, I was forced to redesign my sorting algorithm four times to finally achieve one that worked, iterating through the list twice, swapping through for each individual element.

- (5 pts) What were the actual values from your testing? Did these match your expected values? What did you do to make sure you get the expected values?

Aside from an expected error with alpha input, my expected and actual values are identical.

Input Values	Expected Output	Did actual meet expected?
List of random numbers	Numbers sorted in ascending or descending order	Yes
Letter/alphabetic sequence	Some sort of code death	Segmentation fault; yes
Sequence of numbers terminated by zero, then a letter neither a nor d	No sorting	Yes
Sequence of numbers, letter a or d, then any sequence of letters/numbers not beginning with y	Program ends	Yes

Note: error checking, while not implemented, would be a simple matter of changing the input's type from a number to a letter, checking its validity as a number (and discarding invalid inputs/prompts) then casting it into an integer and passing it to the push function.