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CSCI 362 Prog2

Comments on work to write out item 17 in

array: To write out an array item I utilized the [] operator. This operator allows for direct access to the item stored at location 'n'.

list: To write out a list item I set the current node to head and utilized a for loop to traverse the list until node 'n' was reached when n is reached I wrote out this item.

vector: To write out a vector item I utilized the .at(n) function which is a member of the vector class.

What kind of work in each case?

Each case required a different number of operations. To write out the array item at location n required 1 operation, the linked list required n operations, and the vector implementation required 1 operation.

Comments on work to delete item 17 in

array: To delete out item 'n' in the array implementation I utilized a for loop which began at item n. Then I swapped the values of n and n+1. I repeated this process until the end of the array was reached.

List: the linked list implementation possesses functions which handle the deletion of an item. I simply utilized the .delete() function.

Vector: To delete out item 'n' in the vector implementation I utilized a for loop which began at item n. Then I swapped the values of n and n+1. I repeated this process until the end of the vector was reached.

What kind of work in each case?

Each list implementation required a different number of operations. To delete an item out of a array and vector implementation of a list requires up to 'n' operations. The linked list implementation requires 1 operation.