

CSE 222
Homework 3
Problem solution approach

In this homework we should complete arrayList , LinkedList and a HybritList that contains both ArrayList and LinkedList. I used textbook implementation for ArrayList and LinkedList.

I hold LinkedList and arrayList iterators for HybritList that keeps current element together. My approach was that if the ArrayList we want to add, is full (MAXSIZE) and user want to add middle of them then I removed last element from the array and added the item user gave. And I make a new arrayList and putting it to after that ArrayList. With this solution we dont have to shift all elements. We just shift the elements in one arrayList. If user want to add to an index that is start of an ArrayList which is full then we just make an instance of ArrayList and put the item in it and we add the ArrayList before the ArrayList we on. The same mechanism also for when index is end of an ArrayList. And if user want to delete an item I just remove it from the ArrayList that contains it.

In the first homework I made some interfaces to handle alteration in future. I guessed we would change the containers. So I made that mechanism as I mentioned in solution approach of first homework in detail.

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