<Mangesh Raut>

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Week9Meet - 10 pts

Turn in on BBL as soon as complete, but before end of day Friday following the lecture.

Answer these questions as we progress through the meeting.

1. Who is in your breakout room?

Rohan, Mangesh, Ibrahim, Akshay

<https://docs.oracle.com/javase/8/docs/api/java/util/ArrayList.html#method.detail> Review the methods of ArrayList then choose 2 to discuss how that method could be implemented on an underlying array.

indexOf

indexOf\_Array(array,item){

for(int i= 0;i<array.length;i++){

if(array[i] == item){

return i;

}

return -1;

}

}

Set

Set\_Array(array,index,item){

array[index] = item;

}

1. Who is in your breakout room? After a review of the Agenda code discuss why linked list was chosen as the data structure for the agenda. Consider both linked list and array list in your discussion.

Rohan, Mangesh, Ibrahim, Akshay

In linkedlist we have nodes where we can store multiples records with the same or different data types like int string. In arraylist we can store the different values to that arraylist with different data structures of arraylist. In agenda we use linkedlist where we add the classes and there getters and setters inside the linkedlist of that agenda of gift class. Same for others. We use linkedlist add the other classes materials in that linkedlist.  
The nodes structure is good to store and find that node to edit or modify it. Array list is something difficult to manipulate and slower than linkedlist. It does not required that much shifting which required in arraylist. From a memory allocation point of view, linked lists are more efficient than arrays. Unlike arrays, the size for a linked list is not pre-defined, allowing the linked list to increase or decrease in size as the program runs.

1. Consider what you learned about a queue as a data structure. Find two examples of queues in your life and choose one to express in pseudocode as a data structure.

In queue for ticket booking at any place example movie show who first enter that one will get the ticket and will enter the cinema. A car wash where which car is in queue will wash first and exit also first.

for each minute of the simulation

if a car arrives

note the arrival time of the car (store this with the car)

add the car to the queue

if the car wash bay is empty and there is a car waiting to be washed

dequeue a car for washing

determine how long that car was waiting and add to total wait time

start washing the car (bay will be occupied for next 2 minutes)

otherwise, if there is a car being washed

decrease the amount of time left before the car is done (bay empty)

1. Consider what you learned about a stack as a data structure. Find two examples of stacks in your life and choose one to express in pseudocode as a data structure.

A stack of dinner plates where after finishing dinner the waiter takes the dishes in stack data structure. The browser tabs is the another real life example where we open multiple tabs and exit or close from back.

Initialize currentStateURL that will store the current URL of the Browser.

Initialize two stacks forwardStack and backwardStack that will store the sequence of URLs accessed when the forward and the backward buttons are pressed respectively.

While visiting any new URL, push it into backwardStack.

While pressing the forward button push currentStateURL into backwardStack and pop the last URL from forwardStack and set it as currentStateURL.

While pressing the backward button, push currentStateURL into forwardStack and pop the last URL from backwardStack, and set it as currentStateURL.

Reflect on your learning and your needs. After this class meeting, how prepared do you feel you are for the final exam? How do you plan to study for it?

In this week class we learn about the array and arraylist methods that we go deep we choose indexof and set method in array. The linkedlist and arraylist in linkedlist it is collection which can contain many objects of the same type just like arraylist. In Array list we don’t have null and the pointer pointer to next like in linkedlist we call head tail rear or front last as Null. I am prepared for the final I have look on all the meetings and labs this is my plan of study.