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Week9Meet - 10 pts

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

Answer these questions as we progress through the meeting.

1. 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.

Size() -> This is just the length attribute for the array. It will reference the size value set for the array by the user and return it.

return array.length

Add(): Appends an element to the arraylist

If array is full:

newArray = new Array [2*initialSize]

else:

array[array.length-1] = elem

2. 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.

We need a linked list because it is much more efficient to add. An arraylist would require all elements to be shifted whenever a new element gets added in the front, whereas a linked list is simply mananged by a pointer to the spot where the next element should be added.

- 3. 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.
 - 1. I have files stored on the top shelf of a holder. You can peek at the first one in the queue
 - 2. Food in a fridge could be an example when you have a lot of it stored because you can only retrieve the items starting from the front

Class File:

String name;

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fileQueue<File> = new Queue();
fileQueue.enqueue(new File("tax document 1"))
fileQueue.enqueue(new File("tax document 2"))
fileQueue.dequeue()
fileQueue.empty()
```

- 4. 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.
 - 1. The same holder has a small shelf designed to hold other things in a stack
 - 2. List of chores to do

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Class ToDoltem:
    String description;

toDoList<ToDoltem> = new Queue();

toDoList.push(new ToDoltem("Go to the store"))
toDoList.push(new ToDoltem("Vaccum the house"))
toDoList.pop()
```

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?

I feel like I'm fairly well prepared. Would definitely need to practice linkedlists, stacks, queues more. I plan to review the meet file codes, the labs I've done, and feedback I've got on those labs to study.