CSE143 Lecture Questions for Monday, 3/29/21

Question	Answer
Hi Stuart is there a TA section on Tuesday or on Thursday only? So just want to be clear that 142has sections on Thurs only and 143 has sections on both tues and thurs? Makes sense. Thanks!	Tuesdays and Thursdays starting tomorrow. Yes, you will attend section twice a week in 143 versus the Thursday only in 142. That's why it's 5 units instead of 4.
If we previously taken CSE 142, can we refer back to those lecture to get help	Sure.
The lecture got cut off a bit at the end, is there anything that we missed?	Not really. I mentioned that we want to declare the fields to be private and that was the end of the lecture.
For our assignment, are we allowed to resubmit the assignment, like CSE 142? Thanks!	No.
What is modcount?	Next Monday we're going to talk about how to implement something called an iterator. The modcount field is used with that. If you want to ask then about it, I'd be glad to answer, or come to office hours.
Will there be an honors section that I can join or a lab, like in CSE 142?	No lab, but there will be an honors section. Info about that will be sent out by tomorrow.
Will we ever meet up in person for the lectures or are they all pre-recorded.	They will all be pre-recorded. I'd enjoy meeting up in person, but the university isn't allowing that.
Given that the lecture is a video and we can slow it down, do you think we can attempt to keep up with your live coding? Thank you!	You're right that it would be easier to do that given that you can pause the lecture. That's your choice.
Which version of jgrasp should we download?	Any of them should work, but I'd tend to download the latest stable release.
How many times should we review the lectures? Once? Twice?	I would think you can watch them once, but it's nice to be able to pause and rewind when something is confusing.

Should we ever write notes regarding the lectures or should we simply just go through it once and go back review the video? Or is there another method that you would recommend?	I think it can be helpful to write down certain things from lecture like when I mention things that will be part of our style grading. But as you see the notes I'm going to be posting, you can get a sense of what you might want to take notes on yourself.
When is the toString method called in your code? I see that you added the method to the ArrayIntList class, but i don't see it being used in ArrayIntListClient class. Oh i see, so as long as it is in the ArrayIntList class its fine. Got it, thanks!	When you print out an object it implicitly calls the object's toString() Yep! We override the default toString() that only prints out ArrayIntList@memorycode So that it prints out something more meaningful
Will we use Client and Implementation in our assignments?	Some assignments will involve implementing a class and some will involve being a client of existing classes, so you'll practice both.
Are the Tuesday and Thursday sections different from one another?	Yes, they are different. We expect you to attend both sections each week.
If I get stuck on a problem in Practice It, is there a way to find the answer?	We don't provide answers, but you can discuss PracticeIt problems with me in office hours or with the TAs.
For the java.util, java.io, etc will we be using them and where can we find them so that we can download them into our CSE 143 file So it should already be there?	When you install jdk on your computer it includes library files like java.io and java.util. Yes, you get it automatically when you install jdk.
Do we need to use jGrasp if we have other java ide	You can use any IDE.
Is there any place to practice our code if our skills are rusty or will you always provide material to review/give us a place to work from?	Section will give you a set of problems that are relevant that are in PracticeIt. You'll also get a key for those problems.
Will we receive notifications from canvas or will we need to check back on the main page for announcements/changes to material and dates?	You should look to the course web page for announcements and relevant links.
Will there be a homework assignment this week? Okay thanks!	I will release homework 1 on Wednesday. It is due next week.
for the arraylist that we covered in the lecture, can the size exceed 10? What happens if we want to use a larger array list? Oh okay thank you.	On Wednesday I'll include a constructor that allows you to specify the initial capacity.

What exactly is an honors section and what does it entail? What makes it different from other sections?	I'll send out a message that points you to a page that describes the honors section. It's something extra, not a replacement for the normal sections.
Is there any event where we'd need to call the toString method manually (passing it as a parameter?) or would it always be implied? Right. Thanks so much!	There are some situations where you'd have to call it, but there are many situations where it will be called implicitly. An example where you'd need to call it would be a line of code like this: String s = list1.toString();
Are we going to need to use the toString method in assignments and other problems? And if so, do we need to code it on our own/have it memorized? OK thanks	We will often ask you to include a toString method in the classes we ask you to write.
Was the end of the lecture cut off?	It ended abruptly, but I was basically done making the point that we want the fields to be declared to be private.
At 41:30, is size basically the length of the array? I'm kind of confused because when you pull out the viewer at 42:15, the length of the array is 10. Or is elementData the length?	No, size is not the same thing as the length of the array. Think of my motel analogy. Your motel might have 10 rooms but have just 6 people in those rooms. That means you have 4 empty rooms, 4 vacancies. We have something similar here. The array has a capacity (max # of elements) and a current size (current # of active elements).
Will there be any resources like the labs in 142 in CSE 143? Alright, thanks!	We don't have labs, but we have the 2-a-week sections.
Is the structure of the class same as CSE 142? Where we get homework on Wednesdays and due on Tuesdays? Cool, thanks!	The schedule is slightly different. We will release homeworks on Fridays and they are due the following Thursday.
Where are the zoom links for the quiz sections on tuesday and thursday?	I will add those to the zoom links tab tonight. I will email the class once they are available.
Is the textbook for this course the same as that for 142?	yes.
Are names of the TAs going to be released tomorrow?	yes.
How much of the 143 class will we be using Object-oriented-coding (vs the old Static Main calls many static methods)? thanks!	All of the homework problems in 143 will involve writing a class with instance methods rather than static methods, so basically they are all object-oriented.
We don't have any attendance requirement at all for this class then? (except for question of the day)	We don't take attendance, so it is not part of the grade.

Are there resubmissions? Or resub process?	Not this quarter.
Will we be using the Ed platform?	We will be using Ed only for a message board. The course web page will have the resources for the course.
At 21: 45 you say that the HW will be released on Wed, but a previous asked question on this Q&A says that HWs are released on Fridays. In order to do the HW will we need to have watched lectures up through Wed? Gotcha Thanks!	Most will be released on Friday. This one can be released early. Homeworks are released when the lectures have covered what you need, so you will need to be familiar with the lectures through the day when the homework is released.
Im looking at the file on the right you created at around 40 minutes. Is this an object? Oh ok I understand thank you.	These ideas are discussed in chapter 8. The ArrayIntList class that I defined is a class. There is one and only one class. It is like a blueprint. The client code includes two calls on "new" that ask Java to construct actual objects using the blueprint. So there are many objects potentially constructed using that one class. We also refer to objects as instances of a class.
If we're looking at something through the client view, how does the client know about the fields within the implementation view. For example, how does the client know that elementData exists? Thank you!	We will be talking a lot about how to document a class properly for a client. In general, we won't want to tell a client about fields. In the lecture I write "bad" client code that accesses the fields directly but later I do it the right way by introducing an instance method for adding values.
Why would someone choose to create an ArrayList over an array and vice versa?	The ArrayList<E> class provides a lot of functionality that a raw array does not have. It will add and remove in the middle of a list, for example. With an array you'd have to write code to shift values to make that work. The ArrayList does it for you, which is very convenient.
Will the CSE142 website still be up indefinitely so I can always go back for detailed review? Thanks!	Always is a long time, but we generally keep these old websites available indefinitely.

At 42:30 what is the purpose of setting “list1.size = 3” because a size of 100 is already set. But wouldn’t setting the initial size to 100 not be efficient since you’re taking up a lot more memory that you end up not using? Gotcha!	If you don’t set the size field to 3, then you won’t know that there are 3 values stored in the list. The issue here is the difference between size and capacity. You want to be able to have a list that is initially empty and that grows and shrinks as you make various calls on add and remove. You don’t have a fixed size like 100. The 100 is the capacity, which is the maximum value size can be.
I didn’t take 142 in UW and would like to buy the textbook but MYUW is down. What is the name of the textbook? Thank you	Building Java Programs 5th edition. There is a “textbook” tab on the class web page with detailed info: https://courses.cs.washington.edu/courses/cse143/21sp/textbook.shtml
I feel bad for probing this deeper, but I’m still confused. It seems that manually making this ArrayList (that grows in size) is really a trick, because really (behind the scene) you’re making an array of 100. How can 100 grow and shrink? (I’m not sure if my question completely makes sense. I can try to reword if you dont get it). Thanks!	I mentioned in the lecture that this is a kind of magic trick or illusion. With the built-in ArrayList<E> and with our ArrayIntList, we give a client the impression that the list grows and shrinks when in fact there is an array of fixed size inside the object. Welcome to the two views of an object. We can allow it to grow up to size 100 with this approach. We will see other approaches including one where the array is increased in capacity when necessary.