CSE143 Lecture Questions for Friday, 4/23/21

Question	Answer
You might've answered this in the lecture, but I haven't gotten to it, but how would you make sure that Jessica isn't 2 away from Jessica? Seeing as her friends have her as a friend. Thanks!	I discuss that later in the lecture.
Do we always use tree sets when working with maps? In other words, does the fact that we're working with a map indicate to us automatically that we need to be using tree sets? OK thanks. But we can assume that we're using sets at least? Though it could be different kinds of sets. Ah ok thank you.	No, you don't have to use TreeSet objects. That's just the one implementation I've mentioned. For our purposes, any set would work. Yes, we used the Set interface in defining the type, so it would have to be a class that implements that interface.
Just to make sure I'm understanding this correctly, when we were talking about the diagram for the homework, does the set with the most number of words in it after a particular guess become the set we use for the next guess?	Yes. As the user makes guesses, you split the current set of words into various sets based on the new pattern(s) and then you pick the set that has the most words and that becomes the current set of words for the next guess.
When you have pre-condition don't you have to have an exception thrown in the case its not met? Why would it automatically throw an exception in this case? Part of java's included coding? Thanks!	You don't have to throw an exception. In this case, it will throw an exception when you make a call on charAt(0), so there isn't a strong reason for adding exception handling code. It's just the reality of what happens when you ask for a character when working with an empty string.
Professor, that distance by ring would be such a cool feature if made for Instagram. I think it ton of people would be excited to use it. Idk at least it would be fun to see how many "rings" I am apart to my favorite celebrities LOL. OHH. Are you talking about the social graph? Interesting. I wonder if you could bootstrap off of some other big companies server and run it undercover for a while before it gets too expensive to where they'd know. I read something about how Hot or Not.com did that many years ago on like yahoo's server (i forget which company exactly).	I agree that it's a fun thing to be able to explore. I was at Facebook when they first introduced a "friends of friends" feature for their programmers. One problem is that there are a lot of friends of friends, so it starts becoming computationally very expensive. Yes, exactly, the social graph. Really cool but also very big.

At 30:31, when making an extra data structure, what made you choose a Set<> as the data structure? As in outside of this class when making stuff, how do we know which data structure is the best for our build? Thank you!	You want to ask questions like whether order matters and whether you can have duplicates. For this application, each "ring" of friends is not in any particular order and we don't want duplicates. You might find that some person is friends with two of your friends, but you only want them to count once.