CSE143 Lecture Questions for Wednesday, 4/21/21

Question	Answer
Would a map have been a good ADT to use for the Guitar37 assignment, had we known about it then? Wasn't the use of the String to map character inputs to GuitarStrings, though? Either way, it was fun. Right, I see. Thanks!	Actually probably not. The keys translated fairly nicely into int values. Yes, it mapped character values, but there would be the problem of specifying all of those values. You would have 37 add commands to a map. Having a string of character values worked nicely. We could have used a map for that, but it wouldn't have simplified it a lot. If we had covered maps at the time, then I would have encouraged people to store the strings in a map, but as I said, it wouldn't have helped that much. LetterInventory also would be a natural place to use a map.
It got cut off at the end a little bit. Did we miss anything super important in the final seconds? Ok thank you	No. The important thing was to understand the two sets of code, one for when you first see a key (and then you construct a set) versus when you've seen a key before and access the set you constructed previously.
In last time's lecture, where would O(n) functions be useful when building stuff? So it's useful as a time tracker? Thanks!	The fact that an algorithm is O(n) doesn't give you any indication of its usefulness. It's just an indication of how much time it takes to run. Lots of useful algorithms have a running time of O(n) (but probably so do a lot of useless algorithms). It's useful as a way to describe how the time required increases as the input size increases.
For Map<String, Integer> I know that integer is being associated, but associated to what? What does the integer value mean? Ah! That makes sense, thank you :D	I assume you're talking about the word counting program. That map was associating each word with the count of occurrences for that word. For example, the string "whale" was associated with an Integer indicating how many times the word appeared in the file.
For homework grades, are they posted in the following Thursday? Great, thanks!	Yes, we try to release graded homework on Thursday so that students can look it over before the deadline for the next homework.

What does the Key "value" mean at 17:34?	In a map we have pairs of values, a key and a value. We describe them as key/value pairs. The key is used to look something up. The value is what is associated with that key.