**Unit 7 Lab/Homeowrk:**

Please go over unit 7 summary at:

<https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit7-ArrayList/topic-7-8-summary.html>

Please complete the exercises in the following links:

<https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit7-ArrayList/ListParsonsPractice.html>

<https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit7-ArrayList/listPractice.html>

<https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit7-ArrayList/Exercises.html>

\*note: in the last link (unit 7.11 in the textbook) the goal is to be able to do the hard questions. start with the Easy questions, if they are too simple for you, advance to the medium question. There are not many hard questions so complete the medium questions before you move on to the hard ones.

Lab

1. Create an array list that holds 10 random numbers between 1 and 10.
2. Print the list.
3. Find the sum of all the numbers in the list.
4. Create an algorithm that adds random numbers between 1 and 10 to the list until the sum is greater than 100.
5. Find the size of your new list, print the value for confirmation.
6. Find the smallest value in the list, remove it and replace it with a number twice its size (replace it in the same index). Print the list for confirmation.
7. Sort the list from smallest value to largest value.