

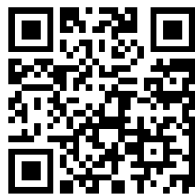
LEC 05

# ArrayList Applications

Questions during Class?

Raise hand or send here

sli.do #cse122



BEFORE WE START


*Talk to your neighbors:  
Any weekend plans?*

Music: [122 24au Lecture Tunes](#) 

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<b>TAs:</b>	Ayush	Heon	Harshitha	Aishah
	Andrew	Izak	Marcus	Ben
	Logan	Colin	Carson	Ivory
	Kyle	Jessica	Jack	Cady
	Maggie	Shivani	Connor	Diya
	Nicole H	Ken	Cora	Katharine
	Caleb	Mia	Hannah	
	Nicole W	Ashley	Leo	
	Jacob	Chaafen	Anya	

# Lecture Outline

- **Announcements** 
- Warm Up
- ArrayList Extended Application

# Announcements

- C0 grades and R0 out yesterday
  - Now that you have your first set of grades, review the [Course Grades](#) section of the syllabus to understand how they factor into your grade at the end of the quarter!
  - [Grade Checker spreadsheet](#) also linked from the syllabus to help track your grades throughout the quarter.
  - See [Resubmission page](#) and [Ed post](#) for R0 logistics
- Creative Assignment 1 (C1) out later today!
  - Focused on ArrayLists
  - Due next Thursday, Oct 17<sup>th</sup> by 11:59 PM
- First quiz in section on Tuesday Oct 15th

# Lecture Outline

- Announcements
- **Warm Up** 
- ArrayList Extended Application

# addAll

Write a method called `addAll` that accepts two `ArrayLists` of `Characters`, `list1` and `list2`, and an integer `location` as parameters and inserts all of the elements from `list2` into `list1` at the specified `location`.

# Lecture Outline

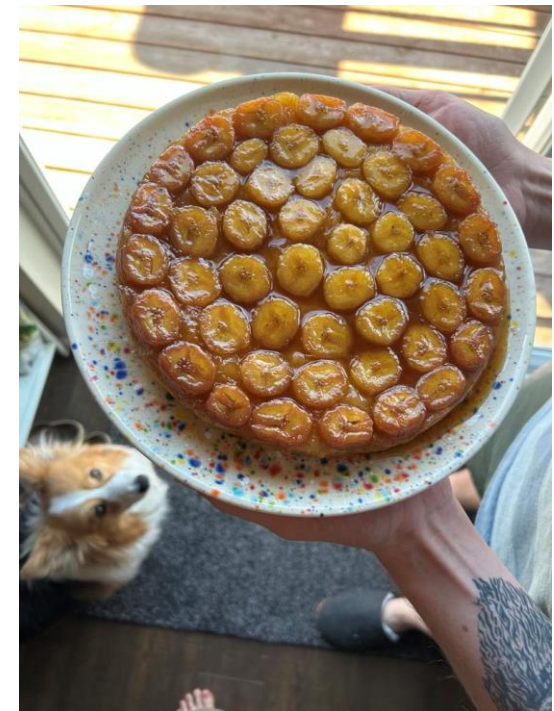
- Announcements
- Warm Up
- **ArrayList Extended Application** ◀

# Bakery Favorites

We will write a program called `BakeryFavorites.java` that manages a list of favorite bakeries for a user (using an `ArrayList`) and allows the user to perform various different operations on their stored list of favorite bakeries.

Key skills used:

- User Interaction (UI) loop
- Iterative development strategies
- Functional decomposition
- Practice with `ArrayList` methods!



# Bakery Favorites: Operations

- Load a list of favorites in from a file provided by the user.
- Compare the stored list of favorites to another list of favorites provided by the user in another file.
- Report the top  $n$  favorites according to the list, where the user can specify  $n$ .
- Move a specific favorite down in the list.
- Add a list of favorites in a user-provided file to the stored list of favorites at a specified location.
- Save the current list of favorites to a file provided by the user.



# Bakery Favorites: Development Strategy

- Set up the main scaffold code
- Menu loop
- Develop each operation, one at a time

*You'll see a similar development strategy in Creative Project 1's specification — we recommend you follow it!*

# Bakery Favorites: Operations

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- Report the top  $n$  favorites in the list, where the user can specify  $n$ .
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- Add a list of favorites in a user-provided file to the stored list of favorites at a specified location.
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**ALREADY DONE!**  
See In-Class 4