BEFORE WE START

Talk to your neighbors: Any weekend plans?

Music: 122 24sp Lecture Tunes 😍



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Questions during Class?

LEC 05

ArrayList

Applications

Raise hand or send here

sli.do #cse122





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 <u>Course Grades</u> 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.
- Creative Assignment 1 (C1) out later today!
 - Focused on ArrayLists
 - Due next Thursday, April 18th by 11:59 PM
- First quiz in section on Tuesday April 16th



Quiz Tips!

- Hit run often!
 - Run, change, run, ...
- Quizzes are graded based on tests that you do or don't pass make sure your submitted code is able to run!
 - NOTE: You should be testing your own code we don't provide test results!
- Quizzes are open-note, open-internet
 - BUT no generative AI (e.g., ChatGPT)
 - Have relevant PCMs, section problems, etc. open in other tabs!
- Grading rubrics on slides think strategically!
- Time budgeting quizzes are 45 minutes

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addAll

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

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Movie Favorites

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

Key skills used:

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

Movie 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.

Movie 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!

Movie Favorites: Operations

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- READY DO Compare the stored list of f provided by the
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