ArrayList

More ArrayLists!

Questions during Class?
Raise hand or send here
sli.do    #cse122

BEFORE WE START

Talk to your neighbors:
What’s your all-time favorite album?
Lecture Outline

• Announcements
• Warm Up
• Large Practice Problem
  - (highly relevant for C0)
Announcements

• Quiz 0 next Tuesday
  - Topics: ArrayLists, Functional Decomp

• Creative Assignment 0 (C0) out this morning
  - due next Thursday, 4/13 @11:59pm

• P0 was due last night
  - Expect grades in about a week
Lecture Outline

• Announcements
• **Warm Up**
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addAll

Write a method called `addAll` that accepts two `ArrayList` of Characters `mainList` and `otherList` and an integer `location` as parameters and inserts all of the elements from `otherList` into `mainList` at the specified location.

https://edstem.org/us/courses/37899/lessons/58237/slides/326839
Lecture Outline

• Announcements
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Example - Movie Favorites

Key skills from this example:

- User Interaction (UI) loop
- Iterative development strategies
- Functional decomp
- Practice with ArrayList methods
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.
Movie Favorites Operations

• Load a list of favorites in from a file provided by the user.
• 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 main scaffold code
• Menu loop
• Each behavior, one at a time

You’ll see a similar development strategy in Creative Project 0’s specification – we recommend you follow it!
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PrintStream

Allows us to print to an output file.

PrintStream output = new PrintStream(new File("output.txt"));

output.print("hi");
output.println("hello");
Movie Favorites - Extension w/Feature Flag

When EXTENSION_FLAG is true, in addition to the usual operations, a user can:

• Compare the stored list of favorites to another list of favorites provided by the user in file.