LEC 03

CSE 122

ArrayList Applications

BEFORE WE START

Talk to your neighbors:

What's the best Disney/Pixar movie?

Music: [cse 122 su 23 tunes](#)

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TAs

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Questions during Class?

Raise hand or send here

sli.do   #cse122

Lecture Outline

- **Announcements**

- Review

- Warm Up

- Large Example

  - Helpful for Creative Project 0!

Announcements

- Programming Assignment 0 (P0) was due yesterday (June 29)
  - You can expect grades and feedback to be released next week on Wednesday
  - Resub 0 is due Wednesday
- Creative Project 0 released today
  - It will be due next Thursday (July 6) at 11:59pm

- Next Tuesday is a holiday, no quiz section!
- Looking ahead, Quiz 0 is on July 10

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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");
```

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addAll

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

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

- Save the current list of favorites to a file provided by the user.

- Add a list of favorites in a user-provided file to the stored list of favorites at a specified location.

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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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~~

- Save the current list of favorites to a file provided by the user.   **PrintStream!**

- ~~Add a list of favorites in a user-provided file to the stored list of favorites at a specified location.~~

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.