BEFORE WE START

Talk to your neighbors:
Share a boring fact about yourself

Music: <u>Hunter/Miya's Playlist</u>

Instructor Hunter Schafer / Miya Natsuhara

TAs

Evelyn

Ajay Gaurav Melissa Andrew Hilal Noa Hitesh Parker Anthony Jake Poojitha Audrey Jin Samuel Chloe Joe Sara Colton Joe Simon Connor Karen Sravani Elizabeth Kyler Tan

Leon

Vivek

LEC 03

CSE 122

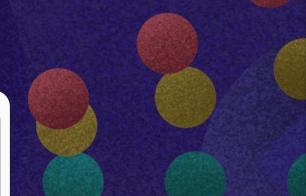
ArrayList Continued

Questions during Class?

Raise hand or send here

sli.do #cse-122





Lecture Outline

Announcements



- Warm Up
- Large Example
 - Helpful for Creative Project 0

Announcements

- Quiz 0 will be held in your quiz section on Tuesday (Oct 11)
 - Details and logistic information in announcement
- Programming Assignment 0 (P0) was due on yesterday (Thursday, Oct 6)
 - You can expect grades and feedback to be released sometime around Thursday next week
- Creative Project 0 will be released later today
 - It will be due next Thursday (Oct 13)

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topN

Write a method called topN that accepts an ArrayList of characters list and an int n and returns a new ArrayList of characters that contains the first n elements of list.

```
For example, if list contained ['g', 'u', 'm', 'b', 'a', 'l', 'l'], a call to topN(list, 4) would return an ArrayList containing ['g', 'u', 'm', 'b']
```

Lecture Outline

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- Large Example
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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.
- 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
- 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 O's specification – we recommend you follow it!

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PrintStream!

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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");
```

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.