

LEC 04

ArrayList Applications

Questions during Class?

Raise hand or send here

sli.do #cse122



BEFORE WE START

*Slido vote & chat with neighbors:
What is your favorite part of
summer?*

Instructor: Ivory & Colin

TAs: Connor
Dani
Yang
Wesley
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Lecture Outline (1/3)

- **Announcements** 
- removelfContains
- ArrayList Extended Application

Announcements/Reminders

- First quiz in section tomorrow, Jul 9th
 - Practice Quiz 0 solutions released!
- Creative Assignment 0 grades will be released tomorrow!
- Programming Assignment 0 (P0) due tomorrow!
- Creative Assignment 1 (C1) out Friday!
 - Focused on ArrayLists
 - Due next Thursday, Jul 16th by 11:59pm PT
- Reminder: Section participation in 8+ sections → Extra resub!
 - No need to do anything; TAs will track on Gradescope

Lecture Outline (2/3)

- Announcements
- **removeIfContains** ◀
- ArrayList Extended Application

removelfContains

Write a method called **removelfContains** that accepts a `List<String> list` and a `String target` as parameters and removes any elements in `list` that contain `target`.

For example, if `list` contained:

`["hello world", "hello!", "goodbye", "hello again"]`

and `target` were `"hello"`,

then a call to `removelfContains(list, target)` would modify `list` to be `["goodbye"]`

Lecture Outline (3/3)

- Announcements
- removelfContains
- **ArrayList Extended Application** ◀

Bakery Favorites

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

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.
- Remove all items that contains a specific word.
- Move a specific favorite down in the list.
- Print the current list of favorites to console.

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

- 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.
- Remove all items that are in the other list.
- Move a specific item from one list to another.
- Print the contents of the list to console.

ALREADY DONE!