Before we start:

Talk to your neighbors:
Any weekend plans?

Music: New Romantics – Taylor Swift

Instructor: Elba Garza

TAs:
- Abigail Autumn
- Claire
- Jacob
- Kevin
- Mia
- Rucha
- Shreya
- Ambika
- Ayush
- Colin
- Jasmine
- Kyle
- Poojitha
- Saivi
- Smriti
- Arthur Chaafen
- Elizabeth
- Jaylyn
- Marcus
- Rishi
- Shananda
- Steven
- Atharva
- Chloe
- Helena
- Kavya
- Megana
- Rohini
- Shivani
- Zane
Lecture Outline

• Announcements

• Warm Up

• ArrayList Extended Application
Announcements

• Quiz 0 next Tuesday, October 10th!
  - Topics: ArrayLists, Functional Decomposition
  - Taken in your *registered* quiz section
  - More details on quiz logistics in Ed announcement

• Creative Assignment 0 (C0) out later today!
  - Due next Thursday, October 12th by 11:59 PM

• P0 was due last night. How’d it go?
  - Being graded—expect grades back in a week-ish
  - Joined class late? Use Resubmission Cycle 0 to submit it!
Lecture Outline

• Announcements

• Warm Up

• ArrayList Extended Application
addAll

Write a method called addAll that accepts two ArrayLists of Characters, list1 and list2, and an integer location as parameters and inserts all of the elements from otherList into mainList at the specified location.
Lecture Outline

• Announcements

• Warm Up

• ArrayList Extended Application
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 0’s specification — we recommend you follow it!
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.

• 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.