CSE 11
Accelerated Intro to Programming
Lecture 13

Greg Miranda, Spring 2021

This lecture is being recorded

Announcements

- Quiz 13 due Wednesday @ 8am

- PA4 due Wednesday @ 11:59pm

- Survey 5 due Friday @ 11:59pm

Arrays

- Arrays
  - Storing sequences of values
    - Something computers are really good at
  - Built-in way of storing data in a number of programming languages
- Things we need to know:
  - Creating arrays
  - Accessing elements in arrays
  - How Java uses arrays

Creating Arrays

- So far, we've seen a number of different data types in Java
  - int
  - double
  - boolean
  - String
  - ClassName
    - Point
    - RectRegion
    - TextTweet
    - and many more

- Arrays are a new kind of data type

- To create an array, we need to use a new kind of syntax

Access Elements in Arrays

- How to access the first number in the array?

- What about the second number?

More Arrays

- Can we make an array of Strings?
  - If so, how?

Another Array Feature

- What if we wanted to know how many elements were in an array?
  - How could we do that?

Method that Works with Arrays

- Write a method that is going to take an int array as a parameter and return a boolean
  - Return true if the array has no elements in it and false otherwise

Memory Models (Diagrams)

- Whenever we introduce a new Java feature:
  - We write some Java code
  - We also draw pictures – memory models (memory diagrams)
    - To understand what happened