Today

Primitive arrays, loops and method calls
Short Questions?
Quiz
Projects 5 & 6
“Right-sized” vs “Over-sized” Arrays
“Right-sized” vs “Over-sized” Arrays

Right-sized:
• Always have all of the “slots” filled
• Have to create a new array every time we add/remove an element

Oversized:
• Often have more slots that are actually being used
• Don’t have to continually create new arrays as we add/remove elements
• Have to keep track of how many slots are being used at any given time
Arrays: Example 1 (last time)

Write a method that takes as input an array of ints and an index of an element to remove & returns a new array with that element removed.

Assume a “right sized” array
Arrays: Example 2

Write a method that takes as input an array of ints and an int to add to the array, and returns a new array that contains all the original elements and the new element.
Quiz
Arrays: Example 3

Write a method that takes as input an array of Strings and splits the Strings into groups of 3. This method returns the resulting array of array of Strings.
Arrays: Example 4

Write a method that takes as input two Strings and determines whether the 2\textsuperscript{nd} string is contained in the 1\textsuperscript{st}. If so, then the starting point in the 1\textsuperscript{st} string is returned. If not, -1 is returned

- “foobarbaz”, “bar” -> 3
- “foobarbaz”, “foobaz” -> -1
Wrap Up

Due:
• Project 5: Tuesday
• HW 7: Thursday
• Project 6: due next Tuesday

Next time:
• More nested loops