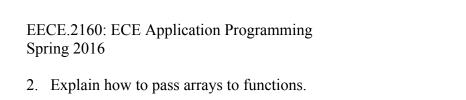
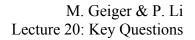
EECE.2160: ECE Application Programming

Spring 2016

Lecture 20: Key Questions March 11, 2016

1. **Example:** Complete the following program:





- 3. **Example:** Write a function for each of the following:
- Given an array of doubles (arr) and the # of elements in the array (n), find the average of all array elements

6 (cont.) **Example:** Write a function for each of the following:

• Given an array of ints and the # of elements, find the largest element in the array

• Given an array of test scores (tests), the # of elements in the array (n), and an amount to scale those scores by (s), add s to every element in tests and print the scaled scores

4. Explain the relationship between pointers and arrays.

5. Explain how 2-D arrays are passed to functions.

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- 6. **Example:** Say we have a program that stores student exam scores in a 2-D array:
 - Each row represents an individual student
 - Each column represents one of the 3 exams

Write functions to:

- Calculate the exam average for each student and store it in a 1-D array that is accessible in the main program
 - o Assume all exams have equal weight
- Calculate the average for each exam and store it in a 1-D array that is accessible in the main program
- Each function takes the same arguments:
 - o The 2-D array
 - o The # of students in the class
 - o The 1-D array that will be used to hold the averages

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5 (cont.) Extra space to write functions

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