16.216: ECE Application Programming

Spring 2013

Lecture 20: Key Questions March 22, 2013

1.	Review) Explain the relationship between pointers and arrays, as well as the use of)f
	ointer arithmetic.	

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

- 3. **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

16.216: ECE Application Programming Spring 2013

3 (cont.) Extra space to write functions

M. Geiger Lecture 20: Key Questions