EECE.2160: ECE Application Programming
Fall 2018

Lecture 22: Key Questions
October 26, 2018

QUESTIONS:

1. Explain how to pass arrays to functions.

2. Explain the relationship between arrays and pointers and the implications for passing arrays as function arguments.

EXAMPLES:

1. Complete the following program:

```
#include <stdio.h>
#define NRows 3     // # of rows
#define NCols 4     // # of columns
int main() {
   double x[NRows][NCols] =          // 2-D array
          {  {  10,   2.5,    0,   1.5},
             {-2.3,  -1.1, -0.2,     0},
             {10.5,  -6.1, 23.4, -9.2} };

   int negCnt[NRows] = {0};   // Initialize entire row
                              // count array to 0
   int i, j;                  // Row and column indices

   /* INSERT CODE HERE--Visit every element in array x and
      count the number of negative values in each row */






   // Now print the row counts
   for (i = 0; i < NRows; i++)
     printf("Row %d has %d negative values.\n", i, negCnt[i]);
   return 0;
}
```

2. 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

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