**Take-Home Quiz 6 (15 pts) – Arrays**

Using Canvas <https://canvas.wsu.edu/>, please submit your solution to the correct quiz folder. Your solution should be a .pdf file with the name <your last name>\_quiz6.pdf and uploaded. To upload your solution, please navigate to your correct Canvas ***lab*** course space. Select the “Assignments” link in the main left menu bar. Navigate to the correct quiz submission folder. Click the “Start Assignment” button. Click the “Upload File” button. Choose the appropriate .pdf file with your solution. Finally, click the “Submit Assignment” button.

1. (7 pts) Write a function called count\_alphas() that accepts an array of *characters* and the *number* of items in the array as parameters, and returns the number of *alphabetic* characters in the array. For example, if the array contains [‘C’, ‘p’, ‘t’, ‘S’, ‘1’, ‘2’, ‘1’], then the function returns 4. Note: if the array does not contain any alphabetic characters, then the function returns 0. You may use functions in <ctype.h>. Hint: isalpha().

int count\_alphas(char arr[], int size);

int count\_alphas(char arr[], int size) {

int count = 0;

for (int i = 0; i < size; i++) {

if (isalpha(arr[i]) != 0) {

count++;

}

}

return count;

}

1. (8 pts) Write a function called find\_min\_and\_max() that accepts an array of *integers* and the *number* of items in the array as parameters, and through two output parameters/pointers returns the *minimum* and *maximum* values found in the array. The return type for the function should be void.

void find\_min\_and\_max(int arr[], int size, int\* min, int\* max);

void find\_min\_and\_max(int arr[], int size, int\* min, int\* max) {

\*max = -99999;

\*min = 99999;

for (int i = 0; i < size; i++) {

if (arr[i] > max) {

\*max = arr[i];

}

if (arr[i] < min) {

\*min = arr[i];

}

}

}