**Take Home: Quiz 1 (15 pts) – Review of C Language Concepts**

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>\_quiz1.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. (5 pts) Write/Implement a function definition for a function my\_strncpy() with the following header:

 char \*my\_strncpy (char \*destination, const char \*source, int n)

This function copies no more than n characters from the string pointed to by source to the buffer pointed to by destination. If the length of the C string in source is less than n, then the destination is padded with null characters until n characters have been copied to it. The function returns destination. **NOTE: you must use array notation in your definition.**

1. (5 pts) Write/Implement a function definition for a function my\_strncat() with the following header:

 char \*my\_strncat (char \*destination, const char \*source, int n)

This function appends no more than n characters from the string pointed to by source to the end of the string pointed to by destination. The null character is appended to the end of the result. If the length of the C string in source is less than n, then only the content up to the terminating null character is copied. The destination pointer is returned. **NOTE: you must use pointer arithmetic and notation in your definition.**

1. (5 pts) Write a function strlen\_recursive () which accepts a *pointer* to a string and recursively *counts* the number of *characters* in the provided string, *excluding* the null character. This function should return the *number* of characters in the string.