## CptS 122 – Data Structures January 15, 2018



Your Name:	 TA's Name:	
ID#:	Section #:	

## Take Home: Quiz 1 (15 pts) - Review of C Language Concepts

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

2. (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)
                                          char *my_strncat (char *destination, const char *source, int n) {
                                            // Get size of src string (w\o '\0')
                                            int size = 1;
                                            while (destination[size] != '\0')
                                            // Create new string (+1 for space of '\0')
                                            char *newString = malloc(sizeof(char) * (size + n + 1));
                                            // Copy destination to newstring
                                            for (int i = 0; i < size; i ++)</pre>
                                             newString[i] = destination[i];
                                            // Copy source to newstring
                                            for (int i = size; i < (size + n); i ++) {</pre>
                                              newString[i] = *source;
                                              // If encounter a NULL in source, break the loop
                                              if (*source == '\0')
                                               break:
                                              else
                                                source ++:
                                            // Add '\0' at the end;
                                            newString[size + n] = '\0';
                                            return (newString);
```

3. (5 pts) Write/Implement a function definition for a function my\_strcmp() with the following header: