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Assignment 3

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Problems chapters 10 & 12

1. (Ch.10, 10.4) What is the output of the following statement?

cout << toupper(tolower('A'));

Answer: output is A

1. (Ch.10, 10.6) Write a short description of each of the following functions:
   1. **Strlen**: Accepts a pointer to a string as an argument. Returns the length of the string.
   2. **Strcat**: Accepts pointers to two strings as arguments. The function appends

the contents of the second string to the first string.

* 1. **Strcpy**: Accepts pointers to two strings as arguments. The function copies the

second string to the first string. The second string is left unchanged.

* 1. **Strncat**: accepts pointers to two strings and an integer argument. The third

argument, an integer, indicates how many characters to copy from

the second string to the first string. If the String2 has fewer than n

characters, String1 is padded with '\0' characters.

* 1. **Strncpy**: Accepts pointers to two strings and an integer argument
  2. **Strcmp**: Accepts pointers to two string arguments.
  3. **Strstr**: Searches for the first occurrence of String2 in String1. If an occurrence

of String2 is found, the function returns a pointer to it. Otherwise, it

returns a NULL pointer (address 0).

1. (Ch12, 12.8) Describe the difference between reading a file with the >> operator and the

getline function.

Answer: The >> operator considers whitespace characters as delimiters, and does not read them. The getline() member function does read whitespace characters.

1. (Ch12,12.1) Describe the difference between the tellg and the tellp functions

Answer: tellg reports the file’s read position and tellp reports the files write position