CSCD 437 Lab 4

Team 6

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Problem a)

Text

Description automatically generated

Sample compile before adjustment:

Text

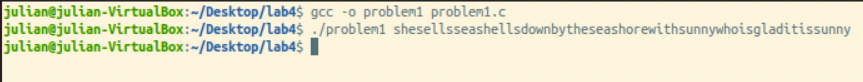
Description automatically generated

First problem that jumps out from our class discussions is the use of strcpy(). One solution is to use strncopy() and then include passing the size of the buffer into the foo() function to use for strncopy(). Also have to put in the #include <string.h>, <stdio.h>, and <stdlib.h>. Something like the following:

Graphical user interface, text, application, chat or text message

Description automatically generated

Here is the output to the above code:



No warnings or errors ☺

Problem b)

Table

Description automatically generated with medium confidence

Besides the #include statements, one piece that stands out is that the max length of the len and the buffer are different so those can be made equal the for loop should stop at an index less than the length and so you could make sure your string is null terminating.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Similar to the last problem, the solution would be to avoid the overflow by making the sizes the same between the input and the buffer. We also don’t want to use strlen() because the input could be bigger than what it says. We can use a loop instead to figure the size.

Text

Description automatically generated

Most noticeable thing for use the #include statements and that the for loop should use the short arglen instead of finding the strlen(arg) again.