This assignment is a bit more simple than the past assignments - this is essentially a capture-the-flag exercise. The attached archive, msg.zip, contains an executable compiled for Linux. This should run on Ubuntu LTS, and was compiled on Ubuntu 18.04. The program takes a globally defined string, performs an operation on that string with a string from your system, performs two more operations, then prints the result. What are the strings in each step?

You should submit your answers via Learn. They should contain:

(1) the two strings used for the first operation,

(2) the string \*after\* the second operation, and

(3) the final string.