

Name: _____

UCID: _____

Worksheet 0x04

1. Download the file googlymoogly.c from D2L and open it in your favourite text editor. You will find three TODOs. Do them, and then paste the result below.

2. Hopefully, what I've asked you to do in TODO 2 makes you feel slightly nauseous. How come?

(Hint: How many chars are there in foo? How many bytes in the first three uint64_t's pointed to by bar? **vomits in own mouth just thinking about it**)

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3. Compile `googlymoogly.c` and then run the resulting binary; paste the output below. (If you do not have a C compiler handy, consider using [Goldbolt](#) or similar for this step.)

4. With regards to your response to question 3: **WTF?! That is, why are the hex strings following “foo:” and “bar:” not identical?!**

(Hint: There are two reasons. One is related to question 2; the other is related to *endianness*. If you don't know what that means, Google is your friend.)

5. Explain the output following “baz:”. What are these numbers and why are they reasonable?