Writing the Code

Using various documentations online, I was able to piece together what it was we were supposed to do for this assignment. Using a buffer, I would use snprntf() to standardize the input going into the buf[] array. Having gotten the values into the array, I would then use either the write() function or the WriteFile() function, depending on the operating system, to print to the console. This part was fairly straightforward, and there weren't any real surprises to be found here.

Compiling and Executing

For Linux, I simply used the gcc compiler in order to compile the C code. For Windows, I used the IDE Geany to compile, build, and execute the code. The recommended command 'cl' did not work on my machine, so I am unsure whether that is a hindrance to the code. Other issues I ran into was, because of the different operating systems running the code, I had to write certain parts of my code differently. For instance, it was necessary to state that my buffer was a pointer in the Windows API calls, but in Linux the same calls wouldn't work if I indicated the buffer as a pointer. These sorts of odd little differences took me a little while to reconcile properly.

Linux Running as a Virtual Machine on Windows