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ECE 3220

LAB 2

Objective

The objective of this lab was to refresh our skills in programming in C. We refreshed in basic controls and looping statements and type casting. We also use some features that I had not explored yet with the operators in bit masking.

Discussion

I always start by giving it a rough go and code as much of it without really thinking about it.

Then I realized that the factorial of an unsigned short can get high very quickly. So I calculated what number created the highest factorial that was with the limit of an unsigned long and I discovered it was 12 for 32 bit machines and 20 for 64 bit. Then when dividing two integers, I realized the temporary result was an integer even though it was stored in a float variable so I type casted the division. I also didn't limit my choices to lower case by giving it the input range from 'A' to 'E' and 'a' to 'e'