

Readme.pdf

I basically implemented formula.c by taking the user's input, argv[1], and converting it to an integer, then using a copy of that integer to manipulate a loop that printed out printf statements. I didn't use any form of malloc, as I felt that it was not necessary for my implementation of formula. I used strcmp from <string.h> to compare the user's input with edge cases such as "-h" and NULL. I also threw an error using stderr if the input was less than 0 (meaning it was negative), or greater than what my program could handle (which is 33). I also had the program return an output of 1 if the user inputted "0" (because $(1+x)^0$ is 1).

I heavily relied on the use of my nCr program, which had two functions: Factorial(int) and nCr(int, int). Factorial's use was the implementation of nCr, which I used to determine the coefficients for each term in my formula.c file.