

Hackathon 1 – 2025

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Write a C program with two functions to perform the following tasks

1. Estimate the smallest non-zero positive double number that can be represented by your computer.
2. How many terms will you use to evaluate $\exp(x)$ at $x = 10^{-3}$ for maximum possible accuracy. Print out the number of terms you have to used it.

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}$$

Your final code should have only the print statements mentioned in the start code provided. Any additional prints or modifying the prints will b