5001 Assignment 2 - Parallel Computing

- Assignment 2.1. Relay race: realize the following in python:
 - send an integer via processor 0 -> 1 -> 2 -> ... -> np-1;
 - on processer np 1, square the integer, and send it all the way back: np 1 -> np 2 -> ... -> 1 -> 0;
 - on processer 0, print out the result and the elapsed time.
- Assignment 2.2. **Euler's number**: write an efficient parallel program to use the following infinite series to calculate Euler's number e:

$$e = 1 + \frac{1}{1!} + \frac{1}{2!} + \frac{1}{3!} + \cdots$$

 Assignment 2.3. Central Limit Theorem: write a parallel program to demonstrate the Central Limit Theorem that the mean of a large number of independent and identically distributed random numbers follows the Gaussian distribution.

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