NUM I 23-24: Assignment 2

Write a Fortran program that:

1) Contains a recursive integer function to compute the factorial of an integer input number
2) Uses the above function to add terms to the formula to compute an approximate value of the Euler number constant:

$$e \approx \sum_{n=0}^{m} \frac{1}{n!}$$

3) Stops the summation when the error between the Fortran intrinsic exp(1.0) and the computed value is less than one part per million.
4) Prints the final value of m and the resulting error.

HINT: Remember to build the program task by task! Test each part!
BONUS: What needs to be changed if requested error is one part per billion?

Send the source code to <ggiulian@ictp.it> by September 22nd
Only the file that contains the source code is required possibly named as: Ass02.YourLastName.f90