INFO 8750 Programming for Computational & Systems Biology

Q: please write a program using either a while or for loop to find out **the least** integer x which satisfies x!>= 1,000,000. Please upload your code by the deadline.

Rubric:

1. Use a while or for loop
2. Output x correctly and must output x. x should be the least integer which satisfies the equation
3. Correctly calculate x!
4. Define variables appropriately

**Source Code:**

#factorial function

def factorial(n):

result = 1

for i in range(1, n + 1):

result \*= i

return result

#Closing condition

x = 1

while factorial(x) < 1000000:

x += 1

print("The least integer x which satisfies x! >= 1,000,000 is:", x)

print("x! =", factorial(x))

**Output:**

