C. Sum of special series

Time Limit: 1 seconds

Problem description

Know you are a talent in IT programming, your best friend who is working in the field of stock market ask you to calculate a formula as following:

$\boldsymbol{Estimate\ value} = x + \sum_{i=1}^{N} (int)\frac{i!}{x}$ where x and n are two non negative integers.

and $(int)\frac{i!}{x}$ mean that we just only get the integer part of fraction.

E.g. if i = 5 and x = 7, so we have (int) 5! / 7 = (int) 120 / 7 = (int) 17.14286 = 17

Input:

One line has an integer x and an integer N where ($1 <= x <= 10^6$) and ($1 <= N <= 10^2$)

Output:

Value of $\boldsymbol{Estimate\ value}$

Example 1:

Input	Output
1 1	2

Example 2:

Input	Output
1 5	154

Example 3:

Input	Output
7 10	576849

Example 4:

Input	Output
1000000 50	3103505322954619965625203297275931995319036209456667392041 3