## Easy Factorials

Write and debug a program that is a given value of the factorial, will determine its initial value of N.

And output the N and lenght of factorial of a number $\mathrm{N}+\mathrm{N}$.
$N<=10^{\wedge} 18$;

## NOTE

## Factorial(N)=(1*2*....*(n-1)*n);

## Input

Factorial of N .

## Output

Two integer numbers N and length of factorial of $\mathrm{N}+\mathrm{N}$.

## Example

Input:
24
Output:
45

