Number of digits in N!

Problem Submissions

As simple as the title, given a number N, print the number of digits in N!

N! is defined as : N! = 1*2*3...(N-1)*N

0! = 0 and 1! = 1.

No number ever contains any leading zeros.

Input Format

Input contains only one number, N.

Constraints

1 <= N <= 1000

Solved: 716
Attempted: 722

Output Format

Output one number that is equal to the number of digits in N!

Sample Input 0

Solved: 592
Attempted: 594

```
6
```

Sample Output 0

```
3
```

Explanation 0

6! = 1x2x3x4x5x6 = 720 which has 3 digits. So the answer is 3.

Current Buffer (saved locally, editable) Python 3

```python
import math

def findDigits(n):
    if (n < 0):
        return 0
    if (n <= 1):
        return 1
    digits = 0
    for i in range(2, n + 1):
        digits += math.log10(i)
    return math.floor(digits) + 1

n=int(input())
print(findDigits(n))

```

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