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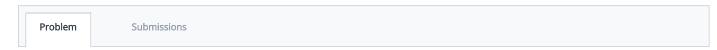
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All Contests > Apr 2021 : CCC SRM KTR : CPS01 : Python Practice > Number of digits in N!

# Number of digits in N!



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

## 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
    import math
 2
   ▼def findDigits(n):
        if (n < 0):
 4 ₹
 5
            return 0
 6
        if (n <= 1):
 7
             return 1
        digits = 0
 9
        for i in range(2, n + 1):
             digits += math.log10(i)
10
11
        return math.floor(digits) + 1
12
13
    n=int(input())
    print(findDigits(n))
14
                                                                                                        Line: 15 Col: 1
```

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