This is a [reverse challenge](https://codefights.com/forum/oJpnZsJF5udPgq3Kd). Have fun!

* **[input] string s**

s will only contain characters from 'a' to 'z'.  
1 ≤ s.length ≤ 13.

* **[output] integer**
* Input:
* **s:** "a"
* Output:
* *Empty*
* Expected Output:
* 1
* Console Output:
* *Empty*
* Input:
* **s:** "ab"
* Output:
* *Empty*
* Expected Output:
* 2
* Console Output:
* *Empty*
* Input:
* **s:** "abc"
* Output:
* *Empty*
* Expected Output:
* 6
* Console Output:
* *Empty*
* Input:
* **s:** "aab"
* Output:
* *Empty*
* Expected Output:
* 3
* Console Output:
* *Empty*
* Input:
* **s:** "codefights"
* Output:
* *Empty*
* Expected Output:
* 3628800
* Console Output:
* *Empty*
* input:
* **s:** "gdhtoicfse"
* Output:
* *Empty*
* Expected Output:
* 3628800
* Console Output:
* *Empty*
* Input:
* **s:** "lol"
* Output:
* *Empty*
* Expected Output:
* 3
* Console Output:
* *Empty*

<https://codefights.com/challenge/mAZLR8rLqeD53QBW6>

def **factorial**(n):

prod = 1

for i in range(2, n + 1):

prod \*= i

return prod

def **nag\_a\_ram**(s):

diccio = {}

for i in range(0, len(s)):

if diccio.has\_key(s[i]):

diccio[s[i]]+=1

else:

diccio[s[i]]=1

den=1

for key in diccio:

den \*=factorial(diccio[key])

return factorial(len(s))/den