Problem C
Common Factors

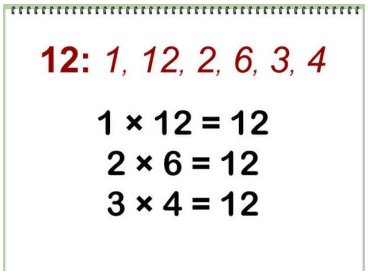


Photo by Bob Chao

Everyone likes to share things in common with other people.

Numbers are the same way! Numbers like it when they have a factor in common.

For example, 4 and 6 share a common factor of 2, which gives them something to talk about.

For a given integer n, we define a function, $f(n)$, equal to the number of integers in the range $[1, n]$ that share a common factor greater than 1 with n.

Furthermore, we can define a second function, $g(n)$, which characterizes the fraction of numbers that like a given number as follows: $g(n) = \frac{f(n)}{n}$

What we really want to know though, is, for any integer $2 \leq k \leq n$, what is the maximum value of $g(k)$?

Input

The input consists of a single integer n ($2 \leq n \leq 10^{18}$), the value of n for the input case.

Output

For the provided test case, output the result as a fraction, in lowest terms, in the form p/q where the greatest common divisor of p and q is 1.

Sample Input 1	Sample Output 1
10	2/3

Sample Input 2	Sample Output 2
100	11/15

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