

F - Fractional Sequence

Time Limit: 1 second, Memory limit: 2G

Consider the following increasing sequence, S , of rational numbers:

$$1, 2, 2\frac{1}{2}, 3, 3\frac{1}{3}, 3\frac{2}{3}, 4, 4\frac{1}{4}, 4\frac{1}{2}, 4\frac{3}{4}, 5, 5\frac{1}{5}, 5\frac{2}{5}, 5\frac{3}{5}, 5\frac{4}{5}, 6, \dots$$

S is composed of an infinite set of blocks, N_1, N_2, N_3, \dots , where block N_i is

$$i, i + 1/i, i + 2/i, \dots, i + (i - 1)/i.$$

So $S(1) = 1, S(2) = 2, S(3) = 2\frac{1}{2}$, etc. Write a program which takes as input an integer n and outputs $S(n)$.

Input

Input is a single line containing an integer, n ($1 \leq n \leq 4 \times 10^9$).

Output

Output $S(n)$ as a single integer if the answer is a whole number. Otherwise, output the integer part, a single space and a proper fraction a/b in lowest terms (i.e. $0 < a < b$ and $GCD(a, b) = 1$). See the sample outputs.

Sample Input 1

326

Sample Output 1

26

Sample Input 2

448

Sample Output 2

30 2/5

Sample Input 3

4000000000

Sample Output 3

89443 19596/89443

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