Problem F

F - Fractional Sequence

Time Limit: 1 second, Memory limit: 2G

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

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

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

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

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	Sample Output 1
326	26

Sample Input 2	Sample Output 2
448	30 2/5

Sample Input 3	Sample Output 3
4000000000	89443 19596/89443

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