Problem I
Inverse Sum

Given an integer $n > 1$, and the equation:

$$\frac{1}{n} = \frac{1}{a} + \frac{1}{b}$$

Find two distinct positive integers a, b which both satisfy the above equation, and have a minimal sum $a + b$.

Input

- The only line of input consists of one integer n ($1 < n \leq 10^8$) — the number for the left hand side of the equation.

Output

Output the best choices for a and b in ascending order.

Sample Input 1	Sample Output 1
4	6 12

Sample Input 2	Sample Output 2
107	108 11556

Sample Input 3	Sample Output 3
999999	1998000 2002000

Sample Input 4	Sample Output 4
1000000	1800000 2250000

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