Problem B. Boris and Berta

Time limit: 2 seconds
Memory limit: 512 megabytes

Boris is making a quest for his sister Berta. One of the tasks is to find a point on the map that is n meters to the north from their house. But it's too easy if n is specified directly. Boris decided to use miles and cables to specify the distance.

He found out that there are a lot of different miles: from a 500-meter Chinese mile (called *li*) up to a 11 299-meter Norwegian mile (called *mil*). And a cable length can be anywhere from 169 to 220 meters.

Boris decided to use an m-meter mile and a c-meter cable. Now he wants to represent the n-meter distance as "M miles and C cables" with non-negative integers M and C as precisely as possible — that is, he wants to minimize $|M \cdot m + C \cdot c - n|$. Help him!

Input

Three lines contain an integer each: n — the distance to represent, m — the chosen length of a mile, and c — the chosen length of a cable ($1 \le n \le 10^9$; $500 \le m \le 11\,299$; $169 \le c \le 220$). All values are given in meters.

Output

Print two non-negative integers M and C — the best approximation for the distance of n meters using the chosen mile and cable lengths. If there are multiple best approximations, print any of them.

Examples

standard input	standard output
1234 500 169	0 7
1700 500 200	1 6

Note

There are two correct answers to the second example test: "`1 6`" and "`3 1`".