

Boris and Berta

Input file: **standard input**
Output file: **standard output**
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 ($1 \leq n \leq 10^9$; $500 \leq m \leq 11\,299$; $169 \leq c \leq 220$). 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”.