## **Special Triangles**

Input file: standard input
Output file: standard output

Time limit: 0.5 seconds Memory limit: 32 megabytes

Find three *special* points in the two dimensional Cartesian plane, no two sharing an x-coordinate or a y-coordinate, such that the area of the triangle formed by them is a given rational number a/b; where  $a, b \in \mathbb{Z}$ .

A point (x, y) is called special if  $0 \le x, y \le 4 \times 10^9$  and both x, y are integers.

## Input

In a single line you are given two integers a and b satisfying  $1 \le a, b \le 10^9$ .

## Output

If an answer does not exist, print -1 in a single line. If an answer exists, print 1 in the first line, and in the second line, print 6 space separated integers  $x_1, y_1, x_2, y_2, x_3, y_3$ , where  $(x_i, y_i)$  are the coordinates of i<sup>th</sup> point of the triangle.

## **Examples**

standard input	standard output
3 8	-1
3 2	1
	0 6 2 3 3 0