## Problem D. Simple Polygon

Input file:
Output file:
Time limit:
Memory limit:
standard input
standard output
1 second
512 mebibytes

Although bobo is truly smart, he just like you to find a simple polygon for him. The polygon you are going to find should satisfy the following conditions.

1. The polygon is simple. That is to say, any two non-adjacent edges won't intersect or touch and any two adjacent edges have exactly one common point.
2. Edges of the polygon are parallel to either $x$-axis or $y$-axis.
3. The perimeter of the polygon equals to $l$, while the area equals to $s$.

## Input

First line of the input contains two integers $l$ and $s\left(4 \leq l \leq 10^{9}, 1 \leq s \leq 10^{9}\right)$.

## Output

The first line contains an integer $n$, which denotes the number of vertices of the polygon you have found ( $4 \leq n \leq 1000$ ).
Each of the following $n$ lines contains 2 integers $x_{i}, y_{i}$, which denote the coordinates of points (in clockwise or counter-clockwise order) $\left(0 \leq x_{i}, y_{i} \leq 10^{9}\right)$.
Any appropriate solution will get accepted.
If no such polygon can be found, simply print " 1 ".

## Examples

|  | standard input |  |
| :--- | :--- | :--- |
| 41 | 4 | standard output |
|  |  | 0 |
|  | 1 | 0 |
|  | 1 | 1 |
|  | 0 | 1 |

