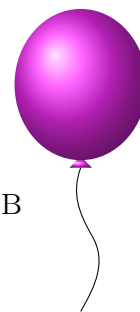


# J Boundary



TIME LIMIT: 2.0s  
MEMORY LIMIT: 2048MB

Bethany would like to tile her bathroom. The bathroom has width  $w$  centimeters and length  $l$  centimeters. If Bethany simply used the basic tiles of size  $1 \times 1$  centimeters, she would use  $w \cdot l$  of them.

However, she has something different in mind.

- On the interior of the floor she wants to use the  $1 \times 1$  tiles. She needs exactly  $(w - 2) \cdot (l - 2)$  of these.
- On the floor boundary she wants to use tiles of size  $1 \times a$  for some positive integer  $a$ . The tiles can also be rotated by 90 degrees.

For which values of  $a$  can Bethany tile the bathroom floor as described? Note that  $a$  can also be 1.

## INPUT

Each test contains multiple test cases. The first line contains an integer  $t$  ( $1 \leq t \leq 100$ ) — the number of test cases. The descriptions of the  $t$  test cases follow.

Each test case consist of a single line, which contains two integers  $w, l$  ( $3 \leq w, l \leq 10^9$ ) — the dimensions of the bathroom.

## OUTPUT

For each test case, print an integer  $k$  ( $0 \leq k$ ) — the number of valid values of  $a$  for the given test case — followed by  $k$  integers  $a_1, a_2, \dots, a_k$  ( $1 \leq a_i$ ) — the valid values of  $a$ . The values  $a_1, a_2, \dots, a_k$  have to be sorted from smallest to largest.

It is guaranteed that under the problem constraints, the output contains at most 200 000 integers.

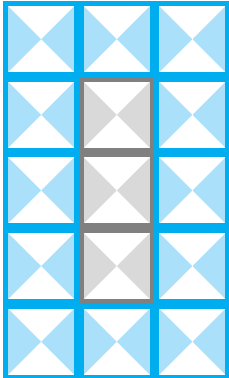
## SAMPLES

Sample input 1	Sample output 1
3	3 1 2 3
3 5	3 1 2 11
12 12	2 1 2
314159265 358979323	

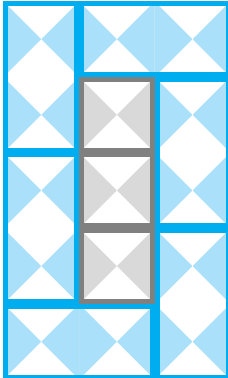
### Explanation of sample 1.

In the **first test case**, the bathroom is 3 centimeters wide and 5 centimeters long. There are three values of  $a$  such that Bethany can tile the floor as described in the statement, namely  $a = 1$ ,  $a = 2$  and  $a = 3$ . The three tilings are represented in the following pictures.

$a = 1$



$a = 2$



$a = 3$

