Baltic Olympiad in Informatics
Day 0
April 26-30, Palanga
numbers

## Numbers

Given two positive integers, find all integers that are strictly between them.

## Input

Input consists of a single line that contains two positive integers $A$ and $B$.

## Output

The first line of output should consist of a single integer - the number of integers that are strictly between $A$ and $B$. If there is at least one such integer, then all of them should be listed in increasing order in the second line of output.

## Examples

| Input | Output |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 8 | 14 | 5 |  |  |


| Input | Output |
| :--- | :--- |
| 12 | 0 |

## Scoring

Your submission will score full points for a subtask if it produces correct output for each testcase in that subtask. Otherwise, if it produces correct first line of output for each testcase, it will score $50 \%$ of the points for the subtask. In all other events it will score no points for the subtask. Note that no points will be awarded for a subtask if (in particular) time limit is exceeded or a runtime error is encountered in at least one testcase in that subtask.

Subtask 1 (30 points): $1 \leq A, B \leq 1000$.
Subtask 2 (70 points): $1 \leq A, B \leq 10^{15}, A$ and $B$ differ by at most 100000 .

## Constraints

Time limit: 1 s .
Memory limit: 64 MB .

