

<b>A</b>	<h1>Square Numbers</h1> <p><b>Input:</b> Standard Input <b>Output:</b> Standard Output</p>	
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A square number is an integer number whose square root is also an integer. For example 1, 4, 81 are some square numbers. Given two numbers a and b you will have to find out how many square numbers are there between a and b (inclusive).

## Input

The input file contains at most 201 lines of inputs. Each line contains two integers a and b ( $0 < a \leq b \leq 100000$ ). Input is terminated by a line containing two zeroes. This line should not be processed.

## Output

For each line of input produce one line of output. This line contains an integer which denotes how many square numbers are there between a and b (inclusive).

## Sample Input

## Output for Sample Input

1 4 1 10 0 0	2 3
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