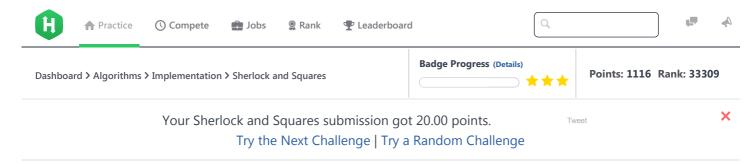
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Sherlock and Squares





Watson likes to challenge Sherlock's math ability. He will provide a starting and ending value describing a range of integers. Sherlock must determine the number of square integers within that range, inclusive of the endpoints.

Note: A square integer is an integer which is the square of an integer, e.g. 1, 4, 9, 16, 25.

Input Format

The first line contains T, the number of test cases.

Each of the next T lines contains two space-separated integers denoting A and B, the starting and ending integers in the ranges.

Constraints

$$1 \le T \le 100$$
$$1 \le A \le B \le 10^9$$

Output Format

For each test case, print the number of square integers in the range on a new line.

Sample Input

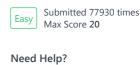
3 9 17 24

Sample Output

0

Explanation

Test Case #00: In range [3,9], 4 and 9 are the two square integers. Test Case #01: In range [17, 24], there are no square integers.



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<u>Upload Code as File</u> Test against custom input

Run Code Submit Code

Congrats, you solved this challenge!

Challenge your friends: 🕴 💆 in

- ✓ Test Case #0 ✓ Test Case #1
- ✓ Test Case #3
 ✓ Test Case #4
- ✓ Test Case #6 ✓ Test Case #7

- ✓ Test Case #2
- ✓ Test Case #5
- ✓ Test Case #8

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You've earned 20.00 points.

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