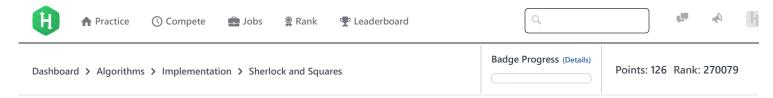
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# Sherlock and Squares **■**



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Watson gives two integers (A and B) to Sherlock and asks if he can count the number of square integers between A and B (both inclusive).

**Note**: A square integer is an integer which is the square of any integer. For example, 1, 4, 9, and 16 are some of the square integers as they are squares of 1, 2, 3, and 4, respectively.

### **Input Format**

The first line contains T, the number of test cases. T test cases follow, each in a new line. Each test case contains two space-separated integers denoting A and B.

### **Constraints**

$$\begin{aligned} &1 \leq T \leq 100 \\ &1 \leq A \leq B \leq 10^9 \end{aligned}$$

## **Output Format**

For each test case, print the required answer in a new line.

# **Sample Input**

# **Sample Output**

2

### **Explanation**

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

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Current Buffer (saved locally, editable) & 🗸 🖸
                                                                                             Java 7
                                                                                                                               \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
   import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ▼
         public static void main(String[] args) {
10 ▼
             /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11
12
    }
                                                                                                                       Line: 1 Col: 1
                                                                                                          Run Code
                       Test against custom input
                                                                                                                        Submit Code
1 Upload Code as File
```

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