时间限制：C/C++/Rust/Pascal 2秒，其他语言4秒
空间限制：C/C++/Rust/Pascal 512 M，其他语言1024 M
64bit IO Format: %lld

题目描述

In the ancient Square Kingdom, the resident c ($c = 1, 2, 3, \ldots$) lives on a stone pillar that is c^2 units high from the ground.

For the convenience of visiting each other, the Square King built ladders of different lengths. A ladder of length d enables two residents that the absolute difference between their heights is exactly d to visit each other. Due to the limited budget, a ladder of length d is built if and only if there are two residents such that the absolute difference between their heights is exactly d, and only one ladder of the same length will be built.

The ladders are labeled with positive integers $1, 2, 3, \ldots$ starting from the shortest length. One day the resident a wants to visit the resident b, and you need to find the label of the ladder they should use.

输入描述:

The first line of the input contains an integer T ($1 \le T \le 10^4$), indicating the number of test cases. For each test case:

The only line contains two integers a and b ($1 \le a, b \le 10^9, a \ne b$), indicating that the resident a is going to visit the resident b.

输出描述:

For each test case, output a line containing an integer, indicating the label of the used ladder.

示例1

输入 复制

```
2
3 1
2 5
```

输出 复制

```
4
14
```

C++（clang++18）

1

ACM模
请通过
入输出
出描述

运行结果 自测