進階程式設計課程 程式作業#7

（請使用 C 或 C++語言撰寫解決下列問題之程式）

Right Triangles

We all know triangles have three sides. More importantly, we know that certain criteria need to be met in order for a triangle to be formed. There is, of course, a more special kind of triangle, the right triangles, whose sides satisfy the following relation: $a^2 + b^2 = c^2$ ($a \le b < c$). Your job is to find how many unique integer triplets exists in the specified range where the three numbers would form a right triangle. Observe the sample given below to learn how uniqueness is determined.

Input

Each test case consists of two positive integers $1 \le X \le Y \le 100000$ where $Y - X \le 5000$.
Test cases are fed continuously in one invocation.

Output

For each test case, output a line consisting of the answer.

Sample Input

2 5
3 10

Sample Output

1
2