Sherlock and Counting

Watson gives Sherlock two integers **N** and **K** and asks him to count the number of positive integers **i** such that

i*(N-i) ≤ N*K and **i<N**.

Input Format
First line contains, **T**, the number of testcases. Each testcase consists of **N** and **K** in one line.

Output Format
For each testcase, print in one line the required answer.

Constraints
$1 \leq T \leq 10^5$
$1 \leq N,K \leq 10^9$

Sample Input

```
2
5 1
5 2
```

Sample Output

```
2
4
```

Explanation
Testcase 1. i=1,4 satisfy.
Testcase 2. i=1,2,3,4 satisfy.