The 26th Annual

# ACM International Collegiate Programming Contest ASIA Regional - Taejon

## Practice Problem B

### Mathematical Curiosity

### Input: math.in

Given two integers *n* and *m*, count the number of pairs of integers $(a,b)$ such that $0 < a < b < n$ and $(a^2 + b^2 + m)/(ab)$ is an integer.

**Input**

The input consists of $T$ test cases. The number of test cases $(T)$ is given in the first line of the input file. Each test case consists of a single line: each line contains the integers *n* and *m*. *n* is greater than 0 and does not exceed 100.

**Output**

For each test case, print the number of pairs *(a,b)* satisfying the given property, one per line.

| **Sample Input (math.in)** | **Output for the Sample Input** |
|---|---|
| 3<br>10 1<br>20 3<br>30 4 | 2<br>4<br>5 |