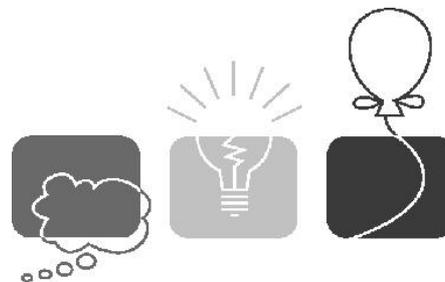


The 26<sup>th</sup> Annual  
ACM International Collegiate  
Programming Contest  
ASIA Regional - Taejon



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## 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	2
10 1	4
20 3	5
30 4	