Given positive integers $m$ and $k$, let $f(x, y)=x\lceil y \sqrt{k}\rceil-y\lfloor x \sqrt{k}\rfloor$, compute the number of positive integer pairs $(a, b)$ such that $f(a, b)=m, f(a-b, b) \neq m$, and $f(a, b-a) \neq m$ hold simultaneously.

## Input

A number of of inputs $(\leq 1000)$ described as follows.
Each input is just a single line with $m$ and $k\left(0<m, k \leq 10^{18}\right)$.

## Output

For each input, output a line with the number of pairs.

## Sample Input

34
35

## Sample Output

0
4

