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 ( $0 < m, k \leq 10^{18}$ ).

## Output

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

## Sample Input

34 35

## Sample Output

0

4