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The Virtual Learning Environment for Computer Programming

Counting Columns

X98126_en

You are standing inside an ancient Measharan monument. It consists of an infinite number of regular hexagonal columns, arranged in a regular hexagonal grid. Each edge of each column is parallel to some line segment between the two nearest columns (like on the picture).



Given the distance between two columns d and the edge length of each column r, compute the number of columns that you can see.

Input

Input consists of several cases. Each case consists of two positive integers: d (distance between the centers of two columns), r (the edge length of each column). You can assume that 2r < d, and that $1 \le d, r \le 10000$.

After the last case the input contains a line containing 0 0.

Output

Output the number of visible columns.

ample input	Sample output
1	6
2	12
1	18
0	
	ample input 1 2 1 0

We have three consonants and two wovels, say, *a*, *b*, *c*, *d*, *e*. According to our definition, there are 5 words of length 1 (all letters), and 25 words of length 2 (all possible pairs of letters). At length 3 the answer is 98 (out of 5^3 possible words, 3^3 consists of only wovels, which makes them illegible).

Problem information

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