Suppose you run a software firm and one of your clients Mr. Churchill manufacture artcrafts from hardboards. As a matter of fact, Mr. Churchill is very concerned about resource usage and he recently has found that his hardboards are being wasted due to random cut down of the materials by the workers. So, he comes to you to make an application which upon a given input about the height and width of the dimensionality of a piece of hardboard, can figure out the least number of square pieces that can be cut without wasting any board.
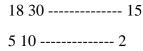
Input

The input contains several test cases. Each test case is described in one line**, containing two integers h (1≤h≤1000) and w (1≤w≤1000)** referring to height and width respectively. The end of the input is indicated by a line containing only two zeros, separated by blank spaces.

Output

For each test case, your program must print one line, containing a single integer, indicating the number of square pieces that can be cut without wasting any board.

Sample Input and Output

18 30 -------------- 15

5 10 -------------- 2

0 0