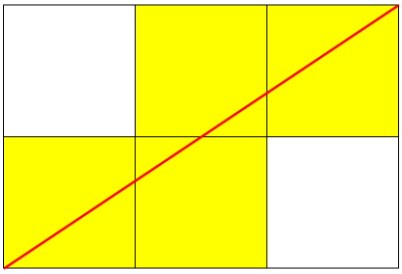
Pixels

Time limit: 2 sec.
Memory limit: 512MB

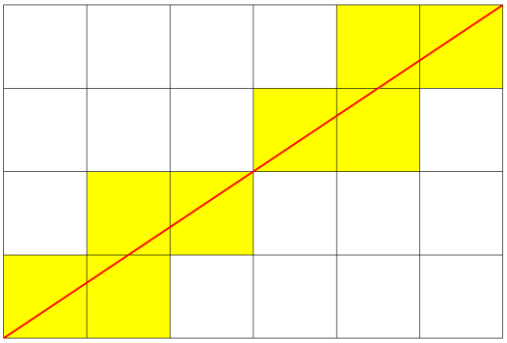
Description

There is an rectangular LCD display with a pixel resolution of w×h. You wish to express a diagonal line that connects the opposite corners of this display. So only the pixels that contain a segment of the diagonal line will be lit.

For example, A 3×2 display will have 4 pixels lit:



And a 6×4 display will have 8 pixels lit:



Given the resolution of the display, calculate how many pixels it would have to light up to express a diagonal line.

Input

The first line contains two integers, w and h.

($1 \leq w, h \leq 1,000,000,000$)

Output

In the first line, print the required number of pixels to light up.

Sample I/O

Input(s)	Output(s)
3 2	4
6 4	8