**Floor Tiling**

A tiling company needs help reducing the money spent on the number of tiles that they use. They would like you to write a program that when given the length and width of a floor, it will tell them the minimum number of tiles they must use. The tiles that the company uses are square tiles, meaning that they can use any size tile, but the dimensions will be **N**x**N**.

**Input:** The first line of input contains **T**, the number of test cases. The next **T** lines each contain two space-separated integers **L** and **W**, the length and width of the floor respectively.

1 <= L, W <= 1000

**Output:** You will first output “CASE #(case number): ” followed by the minimum number of square tiles that they must use.

**Example Input:**

3

2 3

5 8

11 13

**Example Output:**

CASE #1: 3

CASE #2: 5

CASE #3: 6

**Explanation:** For the first test case, the image of the solution is pictured below:

A picture containing text, clock, screenshot

Description automatically generated

For case #2, an image is pictured below:

A picture containing text

Description automatically generated

For case #3, and image is pictured below:

A picture containing chart

Description automatically generated