BACK   Count Black Cells   ⌄

DESCRIPTION   SOLUTIONS 5370   COMMENTS 49   ❯   CODEWRITING   SCORE: 300/300

Imagine a white rectangular grid of `n` rows and `m` columns divided into two parts by a diagonal line running from the upper left to the lower right corner. Now let's paint the grid in two colors according to the following rules:

- A cell is painted black if it has at least one point in common with the diagonal;
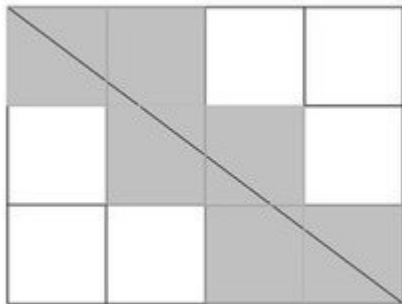- Otherwise, a cell is painted white.

Count the number of cells painted black.

Example

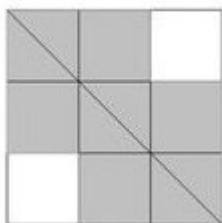- For `n = 3` and `m = 4`, the output should be
  `countBlackCells(n, m) = 6`.

  There are `6` cells that have at least one common point with the diagonal and therefore are painted black.

- For `n = 3` and `m = 3`, the output should be
  `countBlackCells(n, m) = 7`.

  `7` cells have at least one common point with the diagonal and are painted black.

Input/Output