# 2125. Number of Laser Beams in a Bank

## Description

Anti-theft security devices are activated inside a bank. You are given a **0-indexed** binary string array bank representing the floor plan of the bank, which is an m x n 2D matrix. bank[i] represents the [i th] row, consisting of ['0'] s and ['1'] s. ['0'] means the cell is empty, while ['1'] means the cell has a security device.

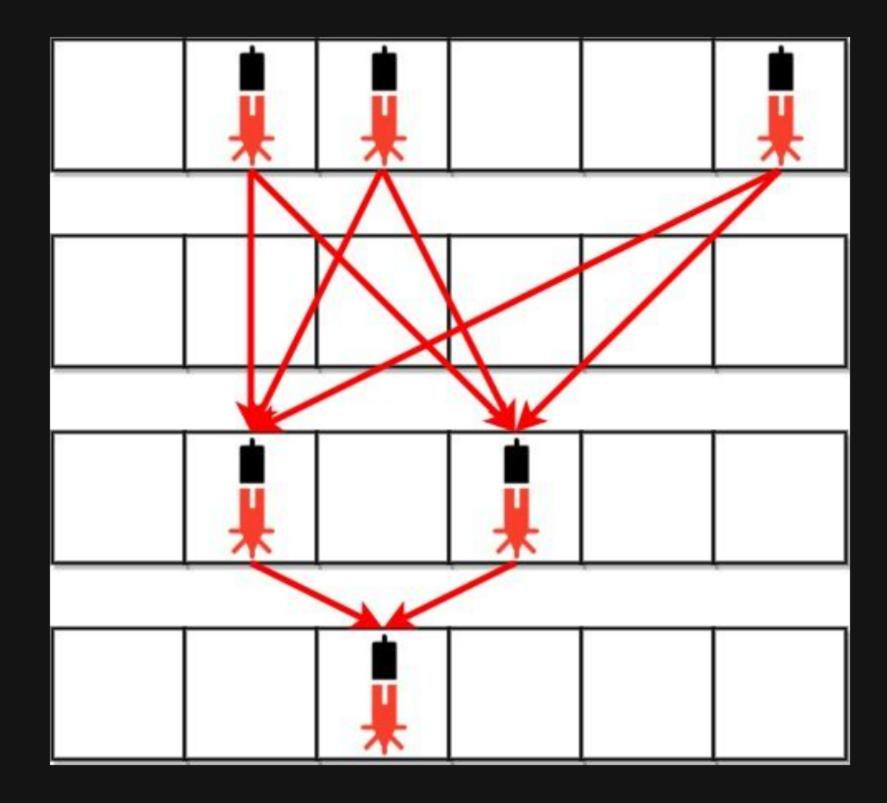
There is one laser beam between any two security devices if both conditions are met:

- The two devices are located on two different rows:  $[r_1]$  and  $[r_2]$ , where  $[r_1 < r_2]$ .
- For each row i where r<sub>1</sub> < i < r<sub>2</sub>, there are no security devices in the i th row.

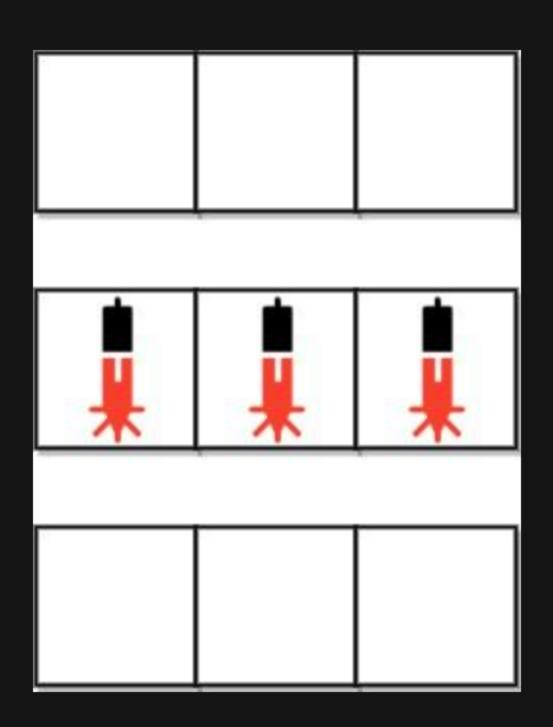
Laser beams are independent, i.e., one beam does not interfere nor join with another.

Return the total number of laser beams in the bank.

#### **Example 1:**



### Example 2:



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Input: bank = ["000","111","000"]
Output: 0
Explanation: There does not exist two devices located on two different rows.
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## Constraints:

- m == bank.length
- n == bank[i].length
- 1 <= m, n <= 500
- bank[i][j] is either '0' or '1'.