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 ith 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**: r1 and r2, where r1 < r2.
* For **each** row i where r1 < i < r2, there are **no security devices** in the ith 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:**

Chart

Description automatically generated with medium confidence

**Input:** bank = ["011001","000000","010100","001000"]

**Output:** 8

**Explanation:** Between each of the following device pairs, there is one beam. In total, there are 8 beams:

\* bank[0][1] -- bank[2][1]

\* bank[0][1] -- bank[2][3]

\* bank[0][2] -- bank[2][1]

\* bank[0][2] -- bank[2][3]

\* bank[0][5] -- bank[2][1]

\* bank[0][5] -- bank[2][3]

\* bank[2][1] -- bank[3][2]

\* bank[2][3] -- bank[3][2]

Note that there is no beam between any device on the 0th row with any on the 3rd row.

This is because the 2nd row contains security devices, which breaks the second condition.

**Example 2:**

A picture containing diagram

Description automatically generated

**Input:** bank = ["000","111","000"]

**Output:** 0

**Explanation:** There does not exist two devices located on two different rows.

**Constraints:**

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