Given a rows \* columns matrix mat of ones and zeros, return how many **submatrices** have all ones.

**Example 1:**

**Input:** mat = [[1,0,1],

  [1,1,0],

  [1,1,0]]

**Output:** 13

**Explanation:**

There are **6** rectangles of side 1x1.

There are **2** rectangles of side 1x2.

There are **3** rectangles of side 2x1.

There is **1** rectangle of side 2x2.

There is **1** rectangle of side 3x1.

Total number of rectangles = 6 + 2 + 3 + 1 + 1 = **13.**

**Example 2:**

**Input:** mat = [[0,1,1,0],

  [0,1,1,1],

  [1,1,1,0]]

**Output:** 24

**Explanation:**

There are **8** rectangles of side 1x1.

There are **5** rectangles of side 1x2.

There are **2** rectangles of side 1x3.

There are **4** rectangles of side 2x1.

There are **2** rectangles of side 2x2.

There are **2** rectangles of side 3x1.

There is **1** rectangle of side 3x2.

Total number of rectangles = 8 + 5 + 2 + 4 + 2 + 2 + 1 = 24**.**

**Example 3:**

**Input:** mat = [[1,1,1,1,1,1]]

**Output:** 21

**Example 4:**

**Input:** mat = [[1,0,1],[0,1,0],[1,0,1]]

**Output:** 5

**Constraints:**

* 1 <= rows <= 150
* 1 <= columns <= 150
* 0 <= mat[i][j] <= 1