A square matrix is said to be an **X-Matrix** if **both** of the following conditions hold:

1. All the elements in the diagonals of the matrix are **non-zero**.
2. All other elements are 0.

Given a 2D integer array grid of size n x n representing a square matrix, return true*if*grid*is an X-Matrix*. Otherwise, return false.

**Example 1:**

Calendar

Description automatically generated

**Input:** grid = [[2,0,0,1],[0,3,1,0],[0,5,2,0],[4,0,0,2]]

**Output:** true

**Explanation:** Refer to the diagram above.

An X-Matrix should have the green elements (diagonals) be non-zero and the red elements be 0.

Thus, grid is an X-Matrix.

**Example 2:**

Calendar

Description automatically generated with low confidence

**Input:** grid = [[5,7,0],[0,3,1],[0,5,0]]

**Output:** false

**Explanation:** Refer to the diagram above.

An X-Matrix should have the green elements (diagonals) be non-zero and the red elements be 0.

Thus, grid is not an X-Matrix.

**Constraints:**

* n == grid.length == grid[i].length
* 3 <= n <= 100
* 0 <= grid[i][j] <= 105