You are given n rectangles represented by a **0-indexed** 2D integer array rectangles, where rectangles[i] = [widthi, heighti] denotes the width and height of the ith rectangle.

Two rectangles i and j (i < j) are considered **interchangeable** if they have the **same** width-to-height ratio. More formally, two rectangles are **interchangeable** if widthi/heighti == widthj/heightj (using decimal division, not integer division).

Return *the****number****of pairs of****interchangeable****rectangles in*rectangles.

**Example 1:**

**Input:** rectangles = [[4,8],[3,6],[10,20],[15,30]]

**Output:** 6

**Explanation:** The following are the interchangeable pairs of rectangles by index (0-indexed):

- Rectangle 0 with rectangle 1: 4/8 == 3/6.

- Rectangle 0 with rectangle 2: 4/8 == 10/20.

- Rectangle 0 with rectangle 3: 4/8 == 15/30.

- Rectangle 1 with rectangle 2: 3/6 == 10/20.

- Rectangle 1 with rectangle 3: 3/6 == 15/30.

- Rectangle 2 with rectangle 3: 10/20 == 15/30.

**Example 2:**

**Input:** rectangles = [[4,5],[7,8]]

**Output:** 0

**Explanation:** There are no interchangeable pairs of rectangles.

**Constraints:**

* n == rectangles.length
* 1 <= n <= 105
* rectangles[i].length == 2
* 1 <= widthi, heighti <= 105