Given a matrix consisting of 0s and 1s, we may choose any number of columns in the matrix and flip **every** cell in that column.  Flipping a cell changes the value of that cell from 0 to 1 or from 1 to 0.

Return the maximum number of rows that have all values equal after some number of flips.

**Example 1:**

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

**Output:** 1

**Explanation:** After flipping no values, 1 row has all values equal.

**Example 2:**

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

**Output:** 2

**Explanation:** After flipping values in the first column, both rows have equal values.

**Example 3:**

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

**Output:** 2

**Explanation:** After flipping values in the first two columns, the last two rows have equal values.

**Note:**

1. 1 <= matrix.length <= 300
2. 1 <= matrix[i].length <= 300
3. All matrix[i].length's are equal
4. matrix[i][j] is 0 or 1