

6072. Maximum Trailing Zeros in a Cornered Path

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You are given a 2D integer array `grid` of size `m x n`, where each cell contains a positive integer.

A **cornered path** is defined as a set of adjacent cells with **at most** one turn. More specifically, the path should exclusively move either **horizontally** or **vertically** up to the turn (if there is one), without returning to a previously visited cell. After the turn, the path will then move exclusively in the **alternate** direction: move vertically if it moved horizontally, and vice versa, also without returning to a previously visited cell.

The **product** of a path is defined as the product of all the values in the path.

Return the **maximum** number of **trailing zeros** in the product of a cornered path found in `grid`.

Note:

- **Horizontal** movement means moving in either the left or right direction.
- **Vertical** movement means moving in either the up or down direction.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

23	17	15	3	20
8	1	20	27	11
9	4	6	2	21
40	9	1	10	6
22	7	4	5	3

23	17	15	3	20
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23	17	15	3	20
8	1	20	27	11
9	4	6	2	21
40	9	1	10	6
22	7	4	5	3

Input: `grid = [[23,17,15,3,20],[8,1,20,27,11],[9,4,6,2,21],[40,9,1,10,6],[22,7,4,5,3]]`
Output: 3
Explanation: The grid on the left shows a valid cornered path.
It has a product of $15 * 20 * 6 * 1 * 10 = 18000$ which has 3 trailing zeros.
It can be shown that this is the maximum trailing zeros in the product of a cornered path.

The grid in the middle is not a cornered path as it has more than one turn.
The grid on the right is not a cornered path as it requires a return to a previously visited cell.

Example 2:

4	3	2
7	6	1
8	8	8

Input: `grid = [[4,3,2],[7,6,1],[8,8,8]]`
Output: 0
Explanation: The grid is shown in the figure above.
There are no cornered paths in the grid that result in a product with a trailing zero.

Constraints:

- `m == grid.length`
- `n == grid[i].length`
- $1 \leq m, n \leq 10^5$
- $1 \leq m * n \leq 10^5$
- $1 \leq grid[i][j] \leq 1000$

JavaScript



```
1 ▾ /**
2   * @param {number[][]} grid
3   * @return {number}
4   */
5 ▾ var maxTrailingZeros = function(grid) {
6
7   };
```

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