Problem 562: Longest Line of Consecutive One in Matrix

Problem Information

Difficulty: Medium
Acceptance Rate: 50.54%
Paid Only: Yes
Tags: Array, Dynamic Programming, Matrix

Problem Description

Given an `m x n` binary matrix `mat`, return _the length of the longest line of consecutive one in the matrix_.

The line could be horizontal, vertical, diagonal, or anti-diagonal.

Example 1:

Input: mat = [[0,1,1,0],[0,1,1,0],[0,0,0,1]] **Output:** 3

Example 2:

Input: mat = [[1,1,1,1],[0,1,1,0],[0,0,0,1]] **Output:** 4

Constraints:

* `m == mat.length` * `n == mat[i].length` * `1 <= m, n <= 104` * `1 <= m * n <= 104` * `mat[i][j]` is either `0` or `1`.

Code Snippets

C++:

```
class Solution {
public:
int longestLine(vector<vector<int>>& mat) {

}
};
```

Java:

```
class Solution {
public int longestLine(int[][] mat) {

}
}
```

Python3:

```
class Solution:
def longestLine(self, mat: List[List[int]]) -> int:
```