

Problem 221: Maximal Square

Problem Information

Difficulty: Medium

Acceptance Rate: 49.60%

Paid Only: No

Tags: Array, Dynamic Programming, Matrix

Problem Description

Given an `m x n` binary `matrix` filled with `0`'s and `1`'s, _find the largest square containing only_ `1`'s _and return its area_.

Example 1:



Input: matrix =

`[[1,"0","1","0"],[1,"0","1","1"],[1,"1","1","1"],[1,"0","0","1"]]` **Output:** 4

Example 2:



Input: matrix = [[0,"1"],[1,"0"]] **Output:** 1

Example 3:

Input: matrix = [[0]] **Output:** 0

Constraints:

* `m == matrix.length` * `n == matrix[i].length` * `1 <= m, n <= 300` * `matrix[i][j]` is `0` or `1`.

Code Snippets

C++:

```
class Solution {
public:
    int maximalSquare(vector<vector<char>>& matrix) {
        }
};
```

Java:

```
class Solution {
    public int maximalSquare(char[][] matrix) {
        }
}
```

Python3:

```
class Solution:
    def maximalSquare(self, matrix: List[List[str]]) -> int:
```