

# Problem 221: Maximal Square

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 49.60%

**Paid Only:** No

**Tags:** Array, Dynamic Programming, Matrix

## Problem Description

Given an  $m \times n$  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","0"],["1","0","1","1","1"],["1","1","1","1","1"],["1","0","0","1","0"]]` **Output:** 4

**Example 2:**



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

**Example 3:**

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

**Constraints:**

$m == \text{matrix.length}$   $n == \text{matrix}[i].\text{length}$   $1 \leq m, n \leq 300$   $\text{matrix}[i][j]$  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:
```