

Row

## 6. Maximal Square (Leetcode-221)

Problem Statement:

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.

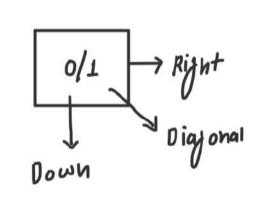
Input: matrix =

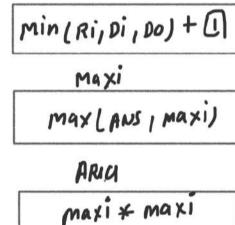
[["1","0","1","0","0"],["1","0","1","1","1"],["1","1","1","1","1","1"],["1","0","0","0","1","0"]]

Output: 4

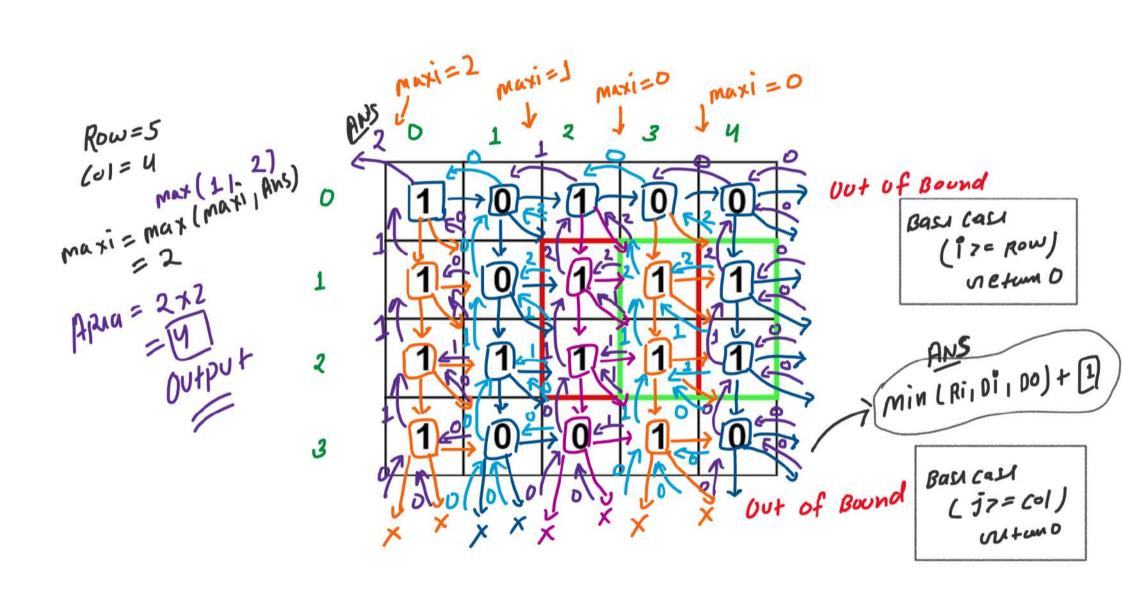
D 1 2 3

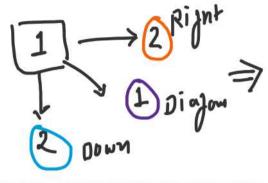
	O		2	3	4	
0	(1/ <i>3)</i> 1	0	1	0	0	
1	1	0	1	1	1	
2	1	1	1	1	1	
3	1	0	0	1	0	

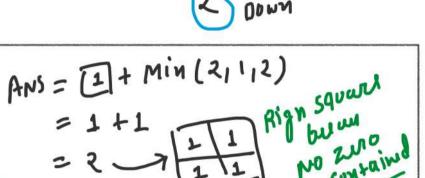




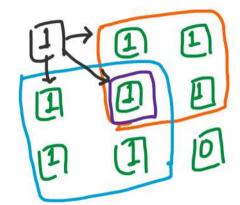
**APJ** 







ARea = 4



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.
class Solution {
public:
    int solve(vector<vector<char>>& matrix, int i, int j, int row,
int col, int& maxi){
        if(i \ge row | j \ge col){
            return 0;
        int right = solve(matrix, i, j+1, row, col, maxi);
        int diagonal = solve(matrix, i+1, j+1, row, col, maxi);
        int down = solve(matrix, i+1, j, row, col, maxi);
        if(matrix[i][j] == '1'){
            int ans = 1 + min(right, min(diagonal, down));
            maxi = max(maxi, ans);
            return ans;
       else{
    int maximalSquare(vector<vector<char>>& matrix) {
        int i = 0:
        int row = matrix.size();
        int col = matrix[0].size();
        int maxi = 0;
        int ans = solve(matrix, i, j, row, col, maxi);
        int area = maxi*maxi;
       return area;
```