

BACK

## Different Squares



DESCRIPTION

SOLUTIONS 5350

COMMENTS 27



CODEWRITING

SCORE: 300/300

Given a rectangular matrix containing only digits, calculate the number of different  $2 \times 2$  squares in it.

**Example**

For

```
matrix = [[1, 2, 1],
          [2, 2, 2],
          [2, 2, 2],
          [1, 2, 3],
          [2, 2, 1]]
```

the output should be

```
differentSquares(matrix) = 6 .
```

Here are all 6 different  $2 \times 2$  squares:

- $\begin{bmatrix} 1 & 2 \\ 2 & 2 \end{bmatrix}$
- $\begin{bmatrix} 2 & 1 \\ 2 & 2 \end{bmatrix}$
- $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}$
- $\begin{bmatrix} 2 & 2 \\ 1 & 2 \end{bmatrix}$
- $\begin{bmatrix} 2 & 2 \\ 2 & 3 \end{bmatrix}$
- $\begin{bmatrix} 2 & 3 \\ 2 & 1 \end{bmatrix}$

**Input/Output**

- [execution time limit] 4 seconds (js)
- [input] array.array.integer matrix

*Guaranteed constraints:*

```
1 ≤ matrix.length ≤ 100 ,
```

