**Problem #766: Toeplitz Matrix (Easy)**

<https://leetcode.com/problems/toeplitz-matrix/description/>

**My Solution:**

1. Let n be the length of the matrix i.e., number of rows.
2. Let m be the length of the first row, i.e., the number of columns/
3. Iterate through the rows and columns of the matrix other than the last row and last column.

If the matrix value at row I and column j is not equal to the matrix value at row (I + 1) and column (I + 1), then return False. That is check whether equal element in the matrix is equal to the element in the next row and next column. If not return False

1. After iterating through the matrix, if False has not been returned so far, then return True.

class Solution:

def isToeplitzMatrix(self, matrix: List[List[int]]) -> bool:

n = len(matrix)

m = len(matrix[0])

for i in range(n - 1):

for j in range(m - 1):

if matrix[i][j] != matrix[i + 1][j + 1]:

return False

return True