**Problem #867: Transpose Matrix. (Easy)**

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

**My Solution:**

1. Let m be the length of the matrix, i.e., the number of rows.
2. Let n be the length of row 0, i.e., the number of columns.
3. Initialize transMat as an empty list.
4. For I in range of n, initialize newRow to be an empty list.

For j in range of m, append matrix at row j and column I to newRow.

Then append newRow to transMat,

1. Return transMat.

class Solution:

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

m = len(matrix) # rows

n = len(matrix[0]) # columns

transMat = []

for i in range(n):

newRow = []

for j in range(m):

newRow.append(matrix[j][i])

transMat.append(newRow)

return transMat