Problem #378 : Kth Smallest Element in a Sorted Matrix

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<https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/>

My Solution:

Runtime beats 35.50%

1. Let m be the number of rows in matrix and n the number of columns

2. Initialize an array arr to an empty list.

3. Iterate through the matrix and copy each element to arr.

4. Sort arr and return the element with index (k-1).

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class Solution:

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

m = len(matrix)

n = len(matrix[0])

# Make the matrix into a 1-dimensional array

arr = []

for i in range(m):

for j in range(n):

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

# Sort the array

sorted\_arr = sorted(arr)

return(sorted\_arr[k-1])