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Backtracking — How many spaces in the matrix are reachable if a spot is reachable if the sum of the digits is not
greater than the given threshold
example: row 13, col 56 == 1+3+5+6 = 15
def get_reachable_count(matrix, threshold):
    rows = len(matrix)
    cols = len(matrix[0])
    if rows < 1 or cols < 1 or threshold < 0:</pre>
        return 0
    visited = [[0] * cols for row in range(rows)]
    count = reachable_count_util(matrix, threshold, visited, 0, 0)
    return count
def reachable_count_util(matrix, threshold, visited, row, col):
    count = 0
    rows = len(matrix)
    cols = len(matrix[0])
    if row < 0 or row >= rows or col < 0 or col >= cols \
             or (sum_digits(row) + sum_digits(col) > threshold) \
             or visited[row][col] is True:
         return 0
    visited[row][col] = True
    count += reachable_count_util(matrix, threshold, visited, row - 1, col)
count += reachable_count_util(matrix, threshold, visited, row + 1, col)
    count += reachable_count_util(matrix, threshold, visited, row, col - 1)
    count += reachable_count_util(matrix, threshold, visited, row, col + 1)
    return count
def sum_digits(num):
    return sum(map(int, list(str(num))))
matrix1 = [[0] * 5 for _ in range(5)]
assert get_reachable_count(matrix1, 4) == 15
assert get_reachable_count(matrix1, 5) == 19
assert get_reachable_count(matrix1, 6) == 22
assert get_reachable_count(matrix1, 7) == 24
assert get_reachable_count(matrix1, 8) == 25
matrix2 = [[0] * 20 for r in range(20)]
assert get_reachable_count(matrix2, 12) == 287
matrix3 = [[0] * 14 for x in range(3)]
assert get_reachable_count(matrix3, 14) == 42
matrix4 = [[0] * 1 for y in range(1)]
assert get_reachable_count(matrix4, 0) == 1
matrix5 = [[0] * 1 for z in range(29)]
assert get_reachable_count(matrix5, 10) == 29
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