Given a m \* n matrix mat and an integer K, return a matrix answer where each answer[i][j] is the sum of all elements mat[r][c] for i - K <= r <= i + K, j - K <= c <= j + K, and (r, c) is a valid position in the matrix.

**Example 1:**

**Input:** mat = [[1,2,3],[4,5,6],[7,8,9]], K = 1

**Output:** [[12,21,16],[27,45,33],[24,39,28]]

**Example 2:**

**Input:** mat = [[1,2,3],[4,5,6],[7,8,9]], K = 2

**Output:** [[45,45,45],[45,45,45],[45,45,45]]

**Constraints:**

* m == mat.length
* n == mat[i].length
* 1 <= m, n, K <= 100
* 1 <= mat[i][j] <= 100