1605. Find Valid Matrix Given Row and Column Sums

Description

You are given two arrays rowSum and colSum of non-negative integers where rowSum[i] is the sum of the elements in the i th row and colSum[j] is the sum of the elements of the j th column of a 2D matrix. In other words, you do not know the elements of the matrix, but you do know the sums of each row and column.

Find any matrix of non-negative integers of size rowSum.length x colSum.length that satisfies the rowSum and colSum requirements.

Return a 2D array representing any matrix that fulfills the requirements. It's guaranteed that at least one matrix that fulfills the requirements exists.

Example 1:

Example 2:

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Input: rowSum = [5,7,10], colSum = [8,6,8]
Output: [[0,5,0],
       [6,1,0],
       [2,0,8]]
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Constraints:

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• 1 <= rowSum.length, colSum.length <= 500
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- 0 <= rowSum[i], colSum[i] <= 10 8
- sum(rowSum) == sum(colSum)