

1605. Find Valid Matrix Given Row and Column Sums

Solved 

Medium

Topics

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Hint

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:

Input: `rowSum = [3,8]`, `colSum = [4,7]`

Output: `[[3,0],`
`[1,7]]`

```
class Solution {
    func restoreMatrix(_ rowSum: [Int], _ colSum: [Int]) -> [[Int]]
    {
        var mat =
Array(repeating:Array(repeating:0,count:colSum.count),count:rowSum
.count)

        for i in (0..
```

```
        }  
    }  
  
    return mat  
}  
}
```