

311. Sparse Matrix Multiplication Premium

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Given two **sparse matrices** `mat1` of size `m x k` and `mat2` of size `k x n`, return the result of `mat1 x mat2`. You may assume that multiplication is always possible.

Example 1:

1	0	0
-1	0	3

x

7	0	0
0	0	0
0	0	1

=

7	0	0
-7	0	3

Input: `mat1 = [[1,0,0],[-1,0,3]]`, `mat2 = [[7,0,0],[0,0,0],[0,0,1]]`
Output: `[[7,0,0],[-7,0,3]]`

Example 2:

Input: `mat1 = [[0]]`, `mat2 = [[0]]`
Output: `[[0]]`

Constraints:

- `m == mat1.length`
- `k == mat1[i].length == mat2.length`
- `n == mat2[i].length`
- `1 <= m, n, k <= 100`
- `-100 <= mat1[i][j], mat2[i][j] <= 100`

Seen this question in a real interview before? 1/5

Yes No

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