Sum of Matrix After Queries

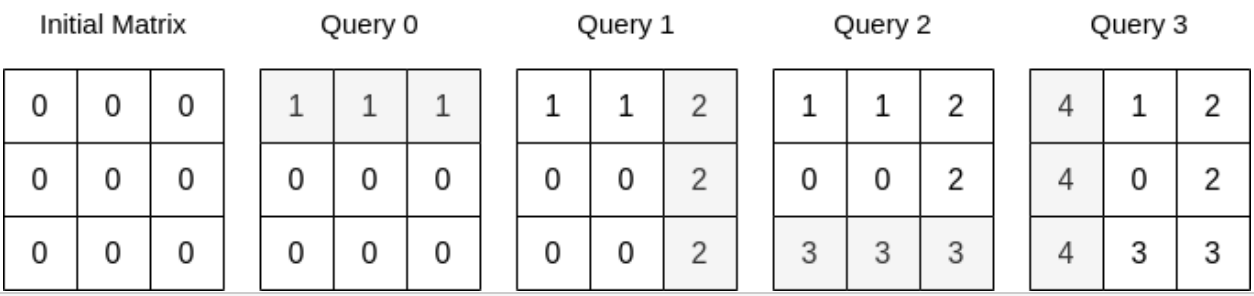
You are given an integer `n` and a **0-indexed 2D array** `queries` where `queries[i] = [type_i, index_i, val_i]`.

Initially, there is a **0-indexed** `n x n` matrix filled with `0`'s. For each query, you must apply one of the following changes:

- if `type_i == 0`, set the values in the row with `index_i` to `val_i`, overwriting any previous values.
- if `type_i == 1`, set the values in the column with `index_i` to `val_i`, overwriting any previous values.

Return *the sum of integers in the matrix after all queries are applied*.

Example 1:

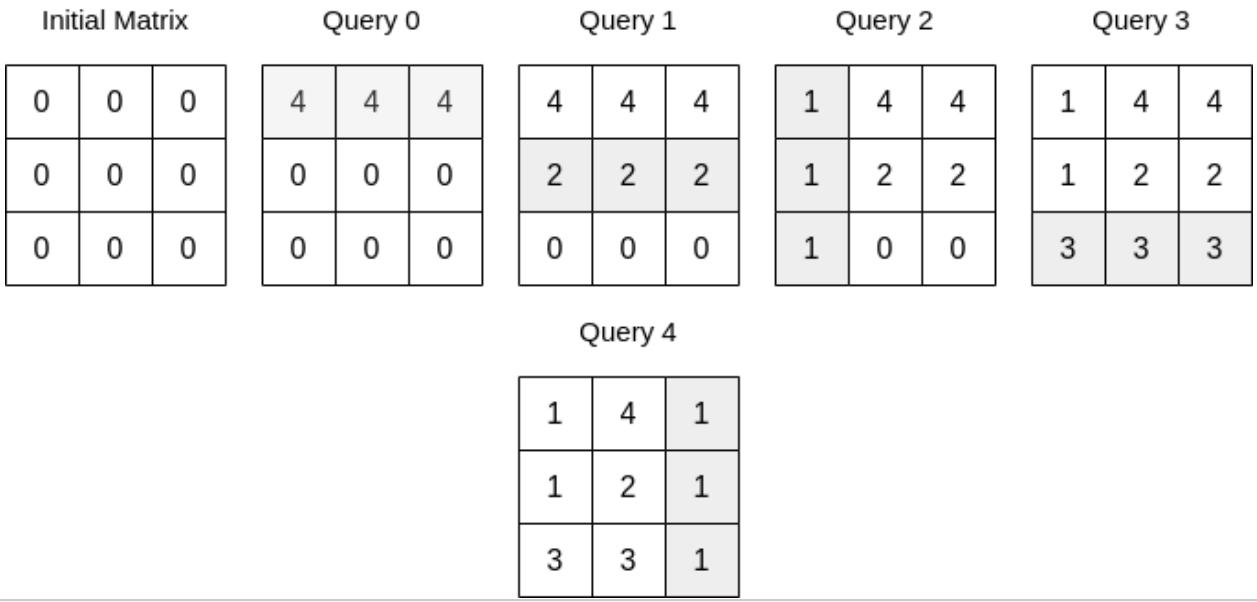



```
Input: n = 3, queries = [[0,0,1],[1,2,2],[0,2,3],[1,0,4]]

Output: 23

Explanation: The image above describes the matrix after each query. The sum of th
e matrix after all queries are applied is 23.
```

Example 2:




```
Input: n = 3, queries = [[0,0,4],[0,1,2],[1,0,1],[0,2,3],[1,2,1]]

Output: 17

Explanation: The image above describes the matrix after each query. The sum of th
e matrix after all queries are applied is 17.
```

Constraints:

- $1 <= n <= 10^4$
- $1 <= queries.length <= 5 * 10^4$
- $queries[i].length == 3$
- $0 <= type_i <= 1$
- $0 <= index_i < n$
- $0 <= val_i <= 10^5$