2D Difference Array

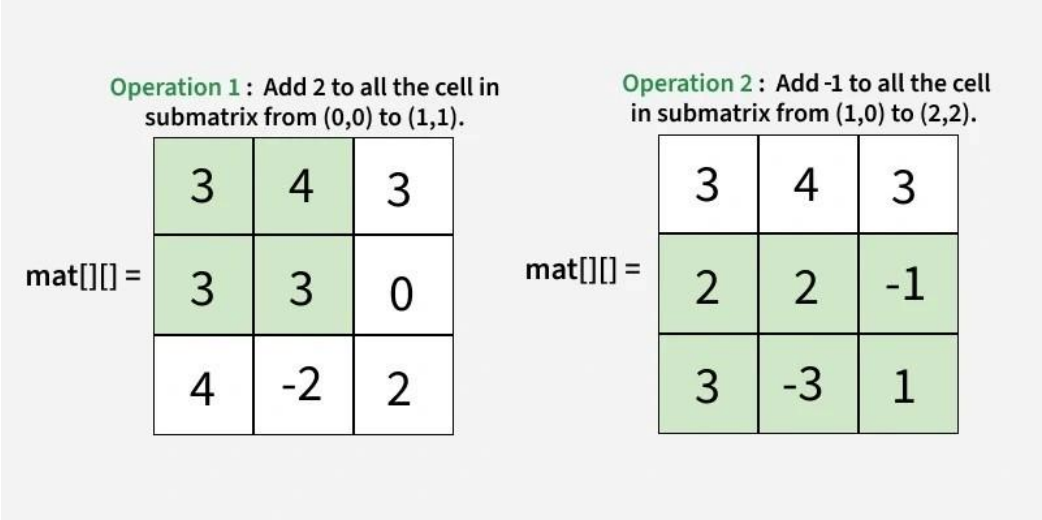
You are given a 2D integer matrix **mat[][]** of size n × m and a list of q operations **opr[][]**. Each operation is represented as an array [v, r1, c1, r2, c2], where:

- **v** is the value to be added
- **(r1, c1)** is the top-left cell of a submatrix
- **(r2, c2)** is the bottom-right cell of the submatrix (inclusive)

For each of the q operations, add v to every element in the submatrix from (r1, c1) to (r2, c2). Return the final matrix after applying all operations.

Examples:

Input: mat[][] = [[1, 2, 3], opr[][] = [[2, 0, 0, 1, 1], [-1, 1, 0, 2, 2]]
[1, 1, 0],
[4,-2, 2]]
Output: [[3, 4, 3],
[2, 2, -1],
[3, -3, 1]]
Explanation:



Constraint:
$1 \le n \times m, q \le 10^5$
$0 \le r1 \le r2 \le n - 1$
$0 \le c1 \le c2 \le m - 1$
$-10^4 \le mat[i][j], v \le 10^4$