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Triangle Sum Query

🔖   **? Ask Doubt**

⏱ Time-Limit: 4 sec   ✏ Score: 0/100   Difficulty : ★★★★
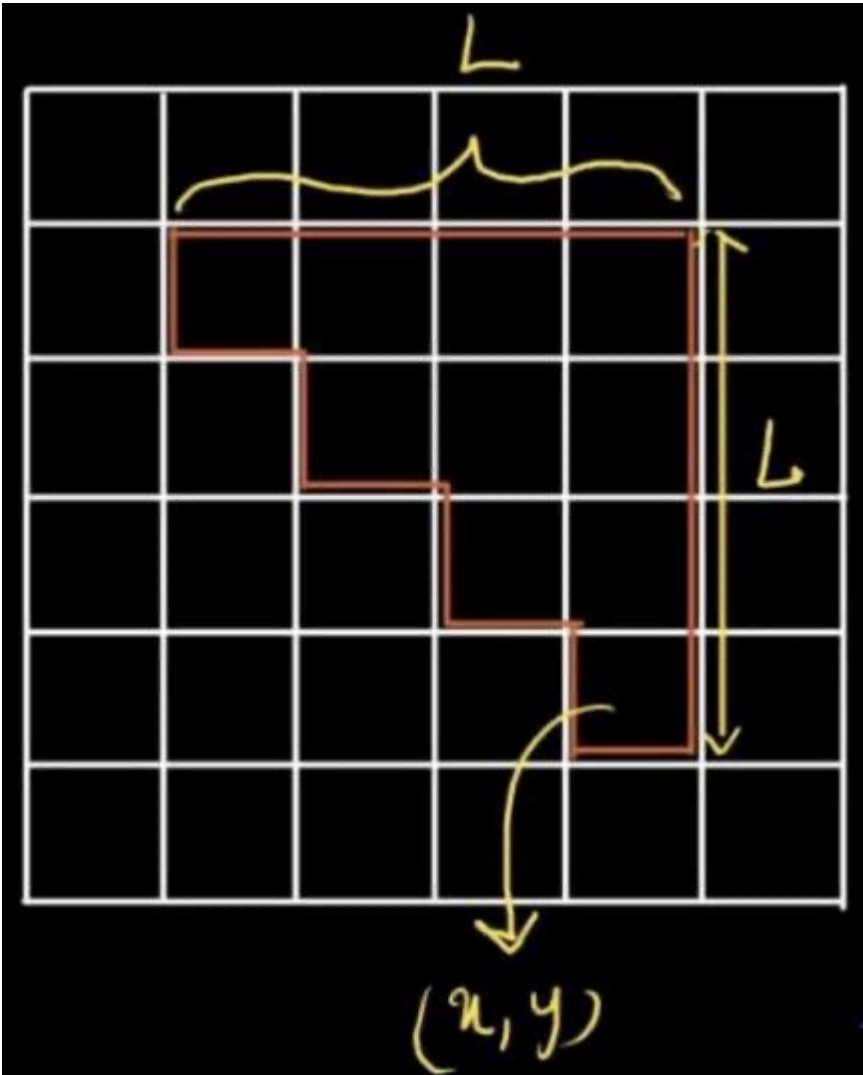
💾 Memory: 256 MB   ✅ Accepted Submissions: 100 Relevant For: AZ-301

Description

Given a 2d-array of dimension $N*M$ and Q queries. In each query three integers $x1, y1, L$ are given, you have to find the sum of the triangle (check the image) %10^9+7.

Assume that the value of cell outside the grid has value 0.

Input Format

The first line contains three space-separated integers N, M, Q where $1<=N, M<=10^3, 1<=Q<=10^6$.

Next N lines contains M space-separated integers ($-1e9<=A_{ij}<=1e9$).

Next Q lines contains three space separated integers $x1, y1, L$ where $1<=x1<=N, 1<=y1<=M, 1<=L<=1000$.

Output Format

For each query print the sum of the triangle.

C++14[GCC] ▾

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1