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Codathon - Inter NIT Coding Competition 2020

LIVE

Jan 12, 2020, 06:00 PM IST - Jan 19, 2020, 06:00 PM IST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / DAY 2

DAY 2

Max. Marks: 100

You are given a N x N matrix and have to perform Q queries on it. Queries are of 2 types:

a) 1 a b c : For each element ${
m e}_{ij}$ (a <= i <= b and 1 <= j <= N) in the matrix, $e_{ij} = e_{ij} \oplus c$

b) 2 a b c : For each element ${
m e}_{ij}$ (1 <= i <= N and a <= j <= b) in the matrix, $e_{ij} = e_{ij} \oplus c$

After these queries are performed, print the sum of the diagonal (top left to bottom right) elements.

INPUT

The first line contains an integer denoting N

The next N lines contains N space separated integers

The next line contains an integer denoting Q

The next Q lines contain 4 space separated integers depending on the type of query

OUTPUT

A single line denoting the sum of diagonal elements of the final matrix

CONSTRAINTS

$$1 <= N <= 1000$$

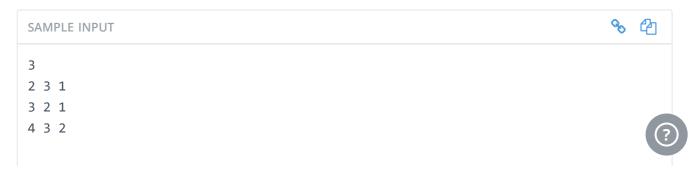
$$1 <= Q <= 2 * 10^6$$

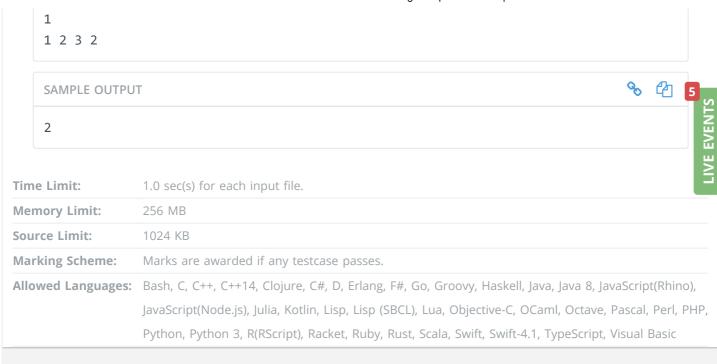
$$1 <= c <= 10^3$$

$$1 <= a, b <= N$$

$$1 <= e_{ij} <= 10^4$$

NOTE: Use fast I/O.





CODE EDITOR

Enter your code or Upload your code as file.

Save

C (gcc 5.4.0)





m STDIN STDOUT

L4 // Write your code here L5

1:1

Press Ctrl-space for autocomplete suggestions (accuracy dependent on connection stability).



