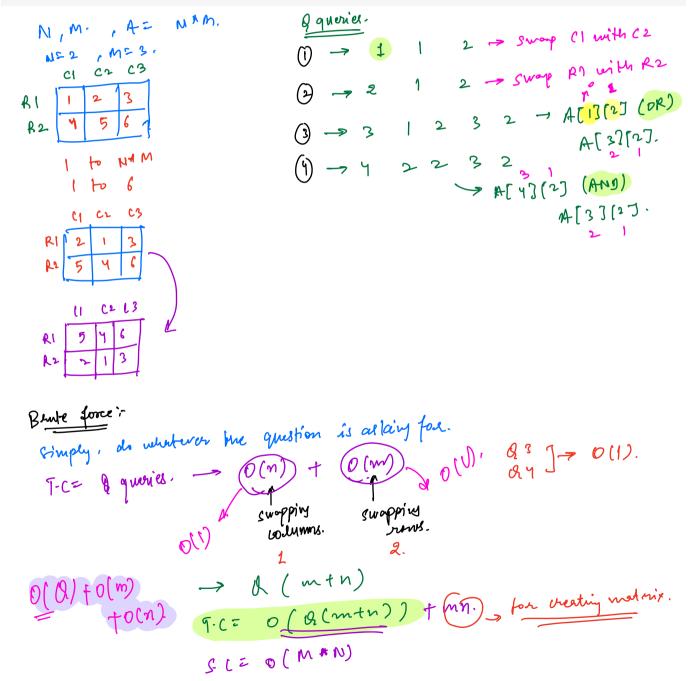
Problem Description

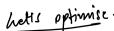
Write a program to input two integers N and M. Now you have a 2-D array A of size N * M. It has all the integers from 1 to N * M exactly once and they are inserted in this 2-D array sequentially in a row major order.

E.g. Suppose N = 2 and M = 3, then 2-D array is $\{\{1,2,3\},\{4,5,6\}\}$

Now you have Q queries of following four types:

- 1 C1 C2: Swap elements of Column C1 with Column C2.
- 2 R1 R2: Swap elements of Row R1 with Row R2.
- 3 X1 Y1 X2 Y2: Print the Bitwise OR of element A[X1][Y1] with A[X2][Y2] in updated 2-D array.
- 4 X1 Y1 X2 Y2: Print the Bitwise AND of element A[X1][Y1] with A[X2][Y2] in updated 2-D array.



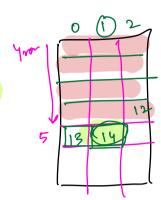




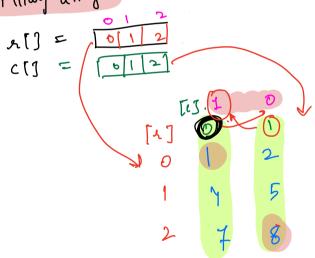
$$A[1][2] = i*m + j + 1$$

$$= (1 + 3) + 2 + (1) = 1$$

$$A[I][I] = 3*1+1+1=5$$
 $A[07[I] = 3*0+1+1=2.$



Auxi lliary arrays-



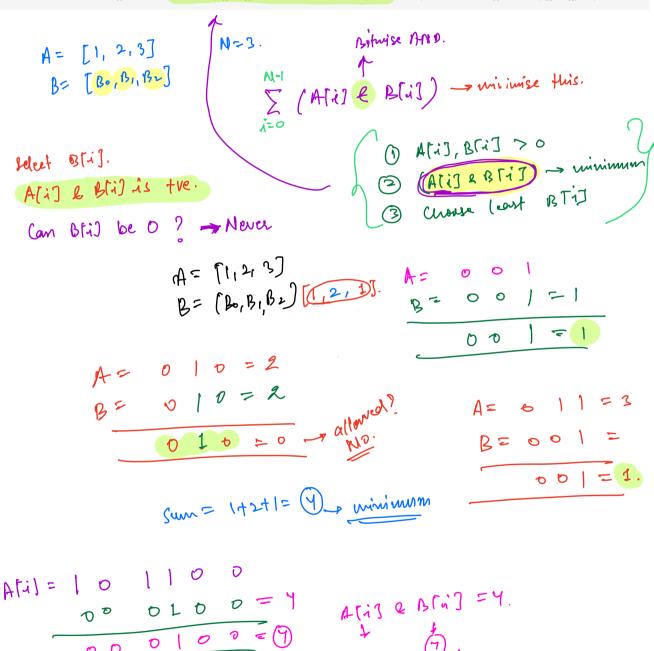
$$0(m+n) \longrightarrow X$$

& Generate Array

Problem Description

You are given an array ${\bf A}$ of size N and you are required to generate another array ${\bf B}$ of size N.

You have to find minimum value of B[i] for which Summation of (A[i] & B[i]) for i = 0 to i = N-1 is minimum possible. Also, you have to select B[i] such that (A[i] & B[i]) is a positive value.



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gry em.

Problem Description

Little Ponny is given an array, A, of N integers. In a particular operation, he can set any element of the array equal to -1.

He wants your help in finding out the minimum number of operations required such that the maximum element of the resulting array is B. If it is not possible, then return -1.

A=[2,413,115] - N Integers.

B=3 should recome
should be shown.

Puses <u>FFT</u>

Sikip this.

[2,4,3,1,5]

-1 -1 -1

Edge case:- If Bis not goessent in A[]. -> reform-1.

Mod ris