## **Tiles**

Given a N x M floor with few blocks already filled, check if it is possible to fill the remaining space with only  $2 \times 1$  blocks, if it is not possible, print the minimum number of  $1 \times 1$  blocks required to fill the floor completely.

#### Input

First line contains N (number of rows), M (number of columns), B (number of already blocked cells), followed by B lines each containing 2 integers x, y coordinates of the blocked cell

 $1 \le N \le 100, 1 \le M \le 100, 0 \le B \le N*M$ 

#### **Output**

If it is possible to fill the floor with only  $2 \times 1$  tiles, print Yes, else print No and the minimum number of  $1 \times 1$  tiles required.

### **Example**

# **Input:** 1 1 0

#### Output: No 1

Input:

220

Output:

Yes

Input:

222

0 1

1 0

**Output:** 

No 2