

Triple Zeros

Given an N by M matrix of zeros and ones check if there are 3 vertically contiguous zeros or not

i.e.

0 0 1 0

1 0 1 0

0 0 1 0

The bold zeros represent three zeros vertically contiguous (there are 2 triplets)

Input

First line contains N and M ($1 \leq N, M \leq 5$) number of rows and number of columns of the matrix.

N lines follows each line contains M digits (either a 0 or a 1) separated by a space.

Output

Prints one line containing a "Yes" if there are three zeros vertically contiguous or "No" otherwise.

Example

Input:

5 5

1 0 1 1 0

1 1 0 1 1

0 0 0 1 0

0 0 1 0 0

1 1 0 0 0

Output:

Yes