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The Virtual Learning Environment for Computer Programming

## Tiles <br> P82243_en

Vint-i-dosè Concurs de Programació de la UPC - Semifinal (2024-06-27)
You have $n \cdot m$ square tiles, each painted with a color codified with a number. You will have to use the tiles to cover a floor of dimensions $n \times m$, with just one restriction: there cannot be two or more (horizontal or vertical) adjacent tiles of the same color. Can you find a solution?

## Input

Input consists of several cases, each with $n$ and $m$, followed by $n \cdot m$ numbers, all between 1 and $n \cdot m$. Assume $1 \leq n \cdot m \leq 10^{5}$.

## Output

For each case, if there is no solution, print a line with " NO ". Otherwise, print a line with "YES", followed by $n$ lines with $m$ numbers each. If there is more than one solution, you can print any one. Follow strictly the format of the sample output.

```
Sample input
    2 3
1 1 1 4 4 6
2
6
2
666 2 2
44
1
1 11
1
```

```
Sample output
YES
146
6 1 4
YES
6 4 1
4 1 6
NO
YES
4 3 2 1
3
1 2 3 1
2 4 2 4
YES
5
```


## Problem information

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