Unit Matrix

Problem	Submissions	Leaderboard	Discussions

Problem Statement

You will be given a matrix of size **N * N**. You need to tell if it is unit matrix or not.

Note: A matrix is called a unit matrix if all the primary diagonal elements are 1 and all the non-diagonal elements are 0.

Input Format

- First line will contain **N**, the row and column of the square matrix.

- Then the N * N sized matrix will be given where the values are integer only.

Constraints

- 1 <= **N** <= 100

- 0 <= **Values** <= 100

Output Format

- Ouput "**YES**" if the matrix is unit matrix, otherwise output "**NO**" without the quotation marks.

Sample Input 0

```
3
1 0 0
0 1 0
0 0 1
```

Sample Output 0

```
YES
```

Sample Input 1

```
5
1 0 0 0 0
0 1 0 0 0
0 0 1 0 1
0 0 0 1 0
0 0 0 0 1
```

Sample Output 1

```
NO
```