https://course.acciojob.com/idle?question=fb61a6a0-9180-4c19-bf84 -b67ee5d4278a

- EASY
- Max Score: 30 Points

Problem 6

Write a program that will take the input of all the elements of a 5x5 2D array and determine if it is a lower triangular Matrix.

Print "YES" if it is a lower triangular matrix else print "NO".

NOTE: A 2D array is said to be a lower triangular matrix if all the elements above its main diagonal are zero and all the elements in the main diagonal and below that is non-zero.

Input Format

Input will be 5x5 2D array

Output Format

Print "YES" if it is a lower triangular matrix else print "NO".

Example 1

Input

1 0 0 0 0

2 3 0 0 0

5 1 7 0 0 7 3 6 9 0

4 8 9 1 3

Output

YES

Explanation

The matrix is lower triangular as only lower triangular entries are non zero

Example 2

Input

Output

NO

Explanation

The matrix is not lower triangular as it has one non zero entry in upper triangle half.

Constraints

```
1<n<1000
where n is elements of matrix</pre>
```

Topic Tags

My code

```
// n java
import java.util.*;
import java.lang.*;
```

```
import java.io.*;
public class Main
     public static void main (String[] args) throws
java.lang.Exception
           //your code here
    Scanner s=new Scanner(System.in);
    int arr[][]= new int[5][5];
    int f=0;
    for(int i=0; i<5; i++){
     for(int j=0; j<5; j++)
       {
        arr[i][j]=s.nextInt();
        if(i<j) {if(arr[i][j]!=0) f=1;}
            else
        {
            if(arr[i][j]==0)
                 f=1:
        }
       }}
    if(f==0) System.out.print("YES");
    else System.out.print("NO");
     }
}
```