https://course.acciojob.com/idle?question=74e5a531-cd32-443b-9892-148cbc44006e

- EASY
- Max Score: 30 Points

Maxima Minima

Given an `n*n` matrix `mat` find an element such that it is the smallest in a row and largest in a column, if such an element does not exist return `-1`.

Input Format

First line contains the values n.

Next n lines contain n spaced integers.

Output Format

Return the element that is smallest in a row and largest in a column if not found return -1.

Example 1

Input

```
2
1 3
6 5
```

Output

```
5
```

Explanation

Row 2 contains minimum element 5 that is largest in the 2nd column.

Example 2

Input

```
1 2 3
4 5 6
7 8 9
```

Output

```
7
```

Explanation

Here the minimum value is 7 in the third row and the largest value in the 1st column.

Constraints

1 <= n <= 10^3

1 <= mat[i][j] <=10^5

Topic Tags

- **2D-Arrays**

My code

```
// in java
import java.util.*;

public class Main {
    public static int maximaMinima(int[][] mat) {
        //Write code here
                int n=mat.length;
```

```
            //int m=arr[0].length;  for column
            for (int i = 0; i < n; i++)
                  {
                        int min=mat[i][0];
                        int t=0;//pointing column no which has low value
in arr
            for (int j = 0; j < n; j++)
                        {
              if(mat[i][j]<min)
                              {
                                    min=mat[i][j] ;
                                     t=j;
                              }
                        }
            int flag=0;
                        int max=min;
                        for (int j = 0; j < n; j++)
                        {
              if(mat[j][t]>max)
                              {
                                    flag=1;
                              }
                        }
                        if(flag==0)
                              return max;
                  }
            return -1;
      }

      public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
          int n;
```

```
        n = sc.nextInt();
        int[][] matrix = new int[n][n];
        for (int i = 0; i < n; i++)
            for (int j = 0; j < n; j++)
                matrix[i][j] = sc.nextInt();
        int result = maximaMinima(matrix);
        System.out.println(result);
        sc.close();
    }
}
```