https://course.acciojob.com/idle?question=a3b750b4-7f91-4b8a-9c27-4949df2147c4

- EASY
- Max Score: 30 Points

# Find distinct Elements

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**Given a `N x N` matrix `M`. Write a program to find count of all the distinct elements common to all rows of the matrix. Print count of such elements.**

## Input Format

**The first line contains value `N`.**

**The second line contains `N*N` matrix in row major order.**

## Output Format

**Print count of all the distinct element in the row.**

## Example 1

Input

```
4
2 1 4 3 1 2 3 2 3 6 2 3 5 2 5 3
```

Output

```
2
```

Explaination

Only 2 and 3 are common in all rows.

## Example 2

Input:

```
5
12 1 14 3 16 14 2 1 3 35 14 1 14 3 11 14 5 3 2 1 1 18 3 21 14
```

Output

```
3
```

Explaination

14, 3 and 1 are common in all the rows.

## Constraints

**1 ≤ N ≤ 100**

**1 ≤ M[i][j] ≤ 1000**

**Topic Tags**

- **Hashing**
- **2D-Arrays**

# My code

```
// in 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 n=s.nextInt();
  int arr[][]=new int[n][n];

  for(int i=0;i<n;i++)
    for(int j=0;j<n;j++)
      arr[i][j]=s.nextInt();
     HashMap<Integer,Integer>hm=new HashMap<>();
       for(int i=0;i<n;i++)
            {
                hm.put(arr[0][i],hm.getOrDefault(arr[0][i],0)+1);
            }
          for(int i=1;i<n;i++)
              {
                  HashMap<Integer,Integer>hm2=new
HashMap<>();
                   for(int j=0;j<n;j++)
                  {

hm2.put(arr[i][j],hm2.getOrDefault(arr[i][j],0)+1);
                  }
                  ArrayList<Integer>al=new  ArrayList<Integer>();

                  for(int val:hm.keySet())
                      {
                          if(hm2.containsKey(val)) ;//continue
                            else
                              al.add(val);
                            //yaha per remove nahi karna kavi vi
```

```
                    }
                for(int l=0;l<al.size();l++)
                    hm.remove(al.get(l));
            }
int c=0;
          for(int val:hm.keySet())
                    {
                      c++;
                    }
        System.out.print(c);
    }
}
```