```
//To print all the prime numbers in a n by n matrix along with their index                Aswin Asok

import java.util.Scanner;
public class Matrix_Prime
{
   public static void main(String args[])
   {
      Scanner br=new Scanner(System.in);
      System.out.println("Enter the value for n");
      int n = br.nextInt();
      if(n>1&&n<11) //Checking whether the row and column index are within range
      {
         int a[][] = new int[n][n]; //Creating the 2D Matrix
         System.out.println("Enter the elements for the array");
         for(int i=0; i<n; i++) //Storing values into the array
         {
            for(int j=0; j<n; j++)
            {
               a[i][j] = br.nextInt();
            }
         }

         System.out.println("ORIGINAL MATRIX"); //Printing the original matrix.
         for(int i=0; i<n; i++)
         {
            for(int j=0; j<n; j++)
            {
               System.out.print(a[i][j]+"  ");
            }
            System.out.println();
         }

         System.out.println("PRIME\tROW INDEX\tCOLOUMN INDEX");
         for(int i=0; i<n; i++) //To find and print prime numbers in the matrix along with row and column
index
         {
            for(int j=0; j<n; j++)
            {
               boolean check = false;
               for(int p=2;p<=a[i][j]/2;p++)
               {
                  if(a[i][j]%p==0)
                  {
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                    check = true;
                    break;
                }
            }
            if(!check && a[i][j]>1)
            {
                System.out.println("  "+a[i][j]+"\t    "+i+"\t\t       "+j);
            }
        }
    }
    else
        System.out.println("Range out of bounds");

  }
}
```

OUTPUT

```
Enter the value for n
3
Enter the elements for the array
7
8
4
11
12
10
13
5
14
ORIGINAL MATRIX
7  8  4
11  12  10
13  5  14
PRIME ROW INDEX    COLOUMN INDEX
 7          0                    0
 11         1                    0
 13         2                    0
 5          2                    1
```