Algorithm

Aim: To print all the prime numbers in a Matrix along with their row and column index.

- 1). Start
- 2). main() a). Input a number n as the number of rows and columns for the matrix.

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b). if(n>1&&n<11)
       int a[][] = new int[n][n];
       System.out.println("Enter the elements for the array");
       for(int i=0; i<n; i++)
         for(int j=0; j<n; j++)
            a[i][j] = br.nextInt();
       }
       System.out.println("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++)
         for(int j=0; j< n; j++)
            boolean check = false;
```

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for(int p=2;p<=a[i][j]/2;p++)
{
        if(a[i][j]%p==0)
        {
            check = true;
            break;
        }
        if(!check && a[i][j]>1)
        {
            System.out.println(" "+a[i][j]+"\t "+i+"\t\t "+j);
        }
        }
    }
}
c). else
System.out.println("Range out of bounds");
```

3). Stop