GCD LCM.java

```
1 import java.util.*;
 2.
 3 public class GCD LCM {
      static int gcd(int a, int b)
 5
       {
 6
           int in = Math.min(a, b);
 7
           int ax = Math.max(a, b);
 8
           return in==0 ? ax : gcd(in, ax%in);
 9
      }
10
      static int lcm(int a, int b) {
11
           return a*b/gcd(a,b);
12
13
      public static void main(String[] args) {
14 //
             try{
15
           Scanner scan = new Scanner(System.in);
16
           int n = scan.nextInt();
           int m = scan.nextInt();
17
18
           int lcm = 1;
19
           int qcd = 0;
20
           for(int i = 0; i<n; i++) {
21
               lcm = lcm(lcm, scan.nextInt());
22
23
           for(int i = 0; i<m; i++) {</pre>
24
               if(i == 0) gcd = scan.nextInt();
25
               else gcd = gcd(gcd,scan.nextInt());
26
27
           int count = 0;
28
               for(int i = 0; lcm*(i+1)<=qcd; i++){
29
                    if(\gcd%(lcm*(i+1)) == 0){
30 //
                        System.out.println(lcm*(i+1));
31
                        count++;
32
                    }
33
34
           System. out. println (count);
35
           scan.close();
36//
             }catch(Exception e) { }
37
      }
38 }
39
```