```
public static int gcd(int a, int b) {
 int r = 0;
 while (a % b != 0) {
  r = a \% b;
  a = b;
  b = r;
 }//mod check loop
 return b;
}//gcd
                                             WOVK it out a 6 5

6= 39 70 24 = 15 = 3 0 6 5
                    variables
gcd(39,24)
                               24
                                              b=15
                                               r= 24 %15 = 9
                                               a = 15
                              15
                   24
                                               b=9
                                         r= 15.1.9 = p
                                9
                    15
                                          a = 9
                                          b = b
                                        (= 9%b = 3
                                 6
                                        a = 6
                                        r= 6% 3 = D
                                 3
                                        0=3
                                         6=0
                                          return 3
```