

```
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
```

gcd(39,24)

loop	R	A	B
0	0	39	24
1	15	24	15
2	9	15	9
3	6	9	6
4	3	6	3
5			

→ Return 3