Digit traversal

287 -> 2, 8, 7

4, 3 -> 4x10+3x1 = 40+3 = 43

287

1. 287%10 = 7 -> 287/10 = 28
2. 28%10 = 8 -> 28/10 = 2
3. 2%10 = 2 -> 2/10 = 0

7, 8, 2

n=287 28 %10
→ ②

```
void printDigits(int n){
    while(n>0){
    int rem=n%10; → 8
    System.out.println(rem);
     n=n/10; n→28 /10→2
    }
    }
```

278

278%10
=8

n=278/10
=27

rem=27%10
=7

n→2

rem=2%10
=2

n→2/10→0

GCD (Greatest Common Divisor)

40, 20

↳ 20.

40, 50

$40\overline{)50}$ 1

40

$10\overline{)40}$ 4

40

0

40, 50 → 10

$40\overline{)50}$ 1

40

$10\overline{)40}$ 4

40

0

40, 52

$40\overline{)52}$ 1

40

12 $\overline{)40}$ 3

36

$4\overline{)12}$ 3

12

0

$4\overline{)40}$ 10

40

0

$4\overline{)52}$ 13

52

0

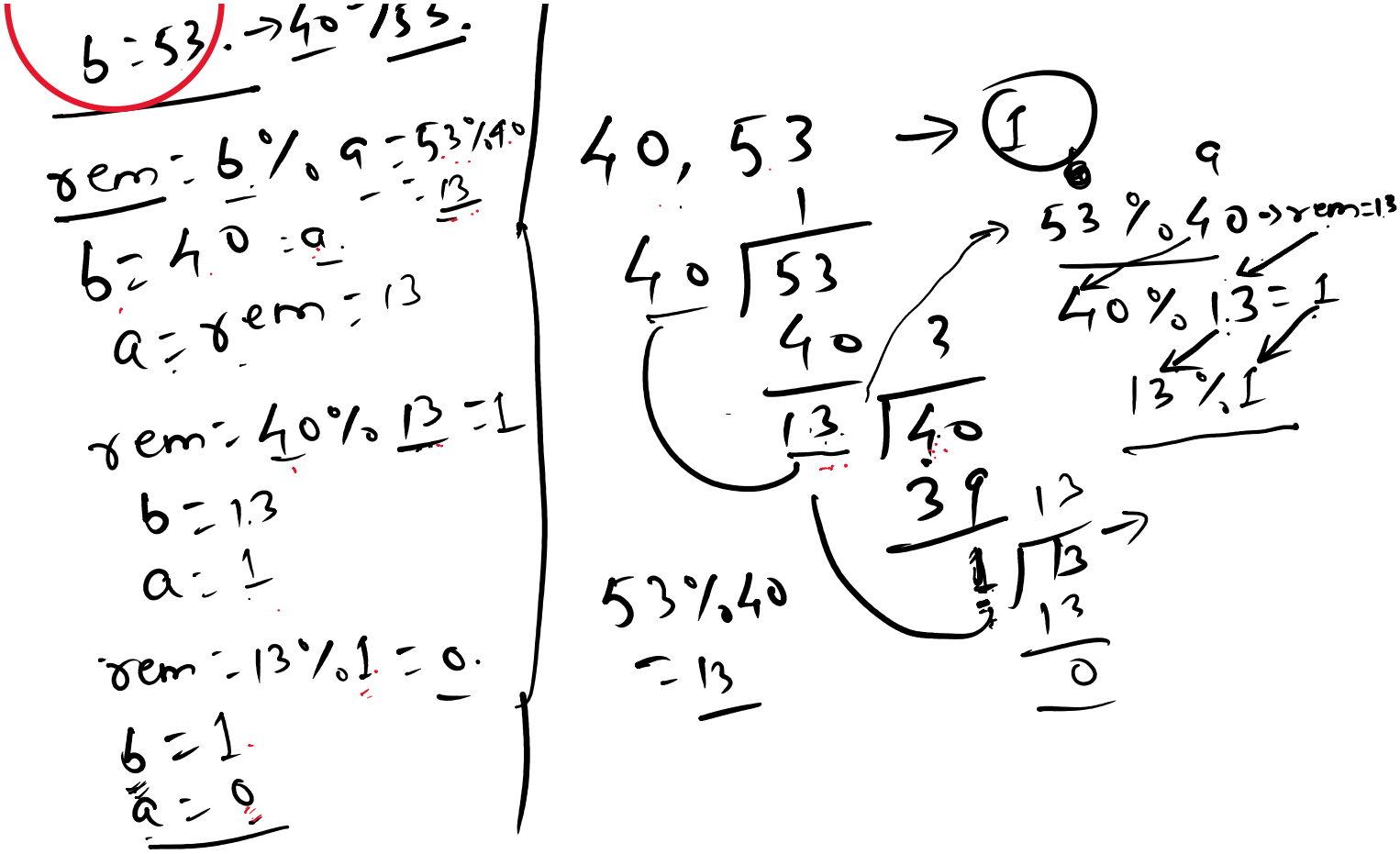
a = 53

b = 40 → a = 40

b = 53

a = 40 → 53) 40

b = 53 → 40) 53




```java
public class Main
{
    public static void main(String[] args) {
    //ystem.out.println("Hello World");
        int a=675,b=100;
        if(a>b){
            int temp=a;
            a=b;
            b=temp;
        }
        int gcdvalue = gcd(a,b);
        System.out.println(gcdvalue);
    }
    static int gcd(int a, int b){
        while(a!=0){
            int rem = b%a;
            b=a;
            a=rem;
        }
        return b;
    }
}
```