Ques Swap x and y

```java
public static void swap(int x, int y) {
    int c = 0;
    c = x;  // first step
    System.out.println("c = " + c);

    x = y;  // second step
    System.out.println("x = " + x);

    y = c;  // third step
    System.out.println("y = " + y);

    System.out.println("x = " + x);

    System.out.println("y = " + y);
}
```

e.g., $x = 10$, $y = 20$

dry run

$c = \cancel{0}\ 10$

$x = 20$

$y = 10$

main

Ques make xy from x & y

```java
public static int solve(int x, int y) {
    int ans = x * 10 + y;
    return ans;
}
```

e.g., $x = 8$, $y = 5$ → 85

x y

$x * 10 \Rightarrow 8 * 10 \Rightarrow 80$

$y \Rightarrow 5$

$ans = x*10 + y$

$= 80 + 5$

$= 85$

$x = 8$, $y = 3$, $z = 4$

$xyz = 834$ (int)

$ans \Rightarrow 8 * 100 + 3 * 10 + 4$

800
30
+ 4
834

Ques Print all digits

```java
public static void solve(int n) {

    while (n > 0) {
        int rem = n % 10;
        System.out.println(rem);

        n = n / 10;
    }

}
```

console

9
4
8

$n = 849 > 0$

rem = n % 10 = 849 % 10 = 9
n = 849 / 10 ⇒ 84 > 0

rem ⇒ n % 10 ⇒ 84 % 10 ⇒ 4
n ⇒ n / 10 ⇒ 84 / 10 ⇒ 8 > 0

rem ⇒ n % 10 ⇒ 8 % 10 ⇒ 8
n = n / 10 ⇒ 8 / 10 ⇒ 0 > 0 ✗

Ques Reverse a 3 digit no.

num = 946 ⇒ 649

Step 1) int a = num % 10 = 946 % 10 = 6
num = num / 10; // 94
int b = num % 10 ⇒ 94 % 10 = 4
num = num / 10; // 9
int c = num % 10 = 9 % 10 = 9

a = 6, b = 4, c = 9

Step 2) ⇒ a * 100 ⇒ 6 * 100 ⇒ 600
⇒ b * 10 ⇒ 4 * 10 ⇒ 40
⇒ c * 1 ⇒ 9 * 1 ⇒ + 9
649

```java
public static int solve(int n) {    // 945
    // step 1
    int a = n % 10; // 5
    n = n / 10;     // 94

    int b = n % 10; // 4
    n = n / 10;     // 9

    int c = n % 10; // 9

    // step 2

    int ans = a * 100 + b * 10 + c * 1;

    return ans;
}
```

H.W

HW_Print count of digits and digits line by line.
Success Rate: 100.00% Max Score: 10 Difficulty: Medium
Solve Challenge

Print the final number xyzw...
Success Rate: 100.00% Max Score: 10 Difficulty: Medium
Solve Challenge

Reverse n-digit number
Success Rate: 100.00% Max Score: 10 Difficulty: Medium
Solve Challenge