Print all digits from end

$$0 = \frac{8}{7}$$

$$0 = \frac{1}{5}$$

$$\frac{1}{5}$$

$$\frac{1}{5}$$

$$\frac{1}{5}$$

$$n = \frac{235(078)}{235(078)}$$
while $(n > 0)$?
$$int rem = \frac{n.7.10}{5}$$

$$syso(rem)$$
;
$$n = \frac{n.7.10}{10}$$

dry nur

$$\frac{n>0}{m}$$
, rem= 8

 $n=235|07>0$, rem= 7

 $n=235|0>0$, rem= 0

 $n=235|>0$, rem= 1

 $n=235>0$, rem= 5

 $n=23>0$, rem= 3

 $n=2>0$, rem= 2

 $n=2>0$, rem= 2

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
   while (n > 0) {
        int rem = n \% 10;
        System.out.println(rem);
        n /= 10;
```

Running product while loop.

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
     int n = scn.nextInt();
     int prod = 1;
     while (\underline{\hat{n}} \rightarrow \underline{0}) {
        rint num = scn.nextInt();
prod = prod * num;
          System.out.print(prod + " ");
```

Print total steps when n/2

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    int steps = 0;
    while ( n >= 1 ) {
        steps++;
        n = n / 2;
    }
    System.out.println(steps);
}
```

Print steps and update maximum

$$\frac{N = 7}{2}$$

$$\frac{\text{maximul means max fill now}}{\text{maxi}}$$

$$\frac{2}{2}$$

$$\frac{3}{7}$$

$$\frac{7}{7}$$

$$\frac{10}{10}$$

Print steps and update maximum

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int steps = 0;
   int maxi = -100;
   while (n--> 0)
       int num = scn.nextInt();
    System.out.println(steps);
```

$$n=7$$
 steps=0 mari = -100

$$num = 2$$
, $(2 > -100)$, $step=1$, $mani=2$
 $num = 1$, $(1 > 2)$, $step=1$, $mani=2$
 $num = -1$, $(-1 > 2)$, $step=1$, $mani=2$
 $num = 3$, $(3 > 2)$, $step=2$, $mani=3$
 $num = 7$, $(7 > 3)$, $step=2$, $mani=7$
 $num = 9$, $(9 > 7)$, $step=3$, $mani=7$
 $num = 10$, $(10 > 7)$, $step=3$, $mani=10$

Print nth Tribonacci number

Sum =
$$a+b+c$$
;
 $a=b$;
 $b=c$;
 $c=sum$;

```
code
```

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
  - if ( n == 0 ) {
    System.out.println(0);
  } else if ( n == 1 ) {
      System.out.println(1);
  } else if ( n == 2 ) {
       System.out.println(1);
  } else {
       int sum = 0;
       int i = 3;
       while ( i <= n ) {
          sum = a + b + c;
          -a = b;
           c = sum;
           j++;
       System.out.println(sum);
```

Pattern 1 - Print Stars in same line

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
   // for (int i = 0; i < n; i++) {
   // System.out.print("*");
   // }
    int i = 0;
    while (i++ < n) {
        System.out.print("*");
```

Pattern 2 - Print n x 12 star rectangle

$$\begin{array}{c}
1 \\
1 \\
1 \\
2 \\
3 \\
4 \\
3
\end{array}$$
Solumnia

(5 nows and 12 colouman)