Running Sum for loop

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int sum = 0;
    int i = 0;
    while ( i < n ) {
        int val = scn.nextInt();

        sum = sum + val;
        System.out.print(sum + " ");

        i++;
    }
}
```

int val =

n = 5

sum = 0

i = 0.

val = 3, sum = 3

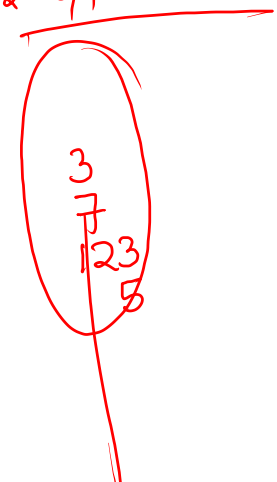
i = 1, val = 2, sum = 5

i = 2, val = -2, sum = 3

i = 3, val = 4, sum = 7

i = 4, val = 5, sum = 12 o/p

i = 5



⇒ Fibonacci series (every no. will be sum of prev. 2 no)

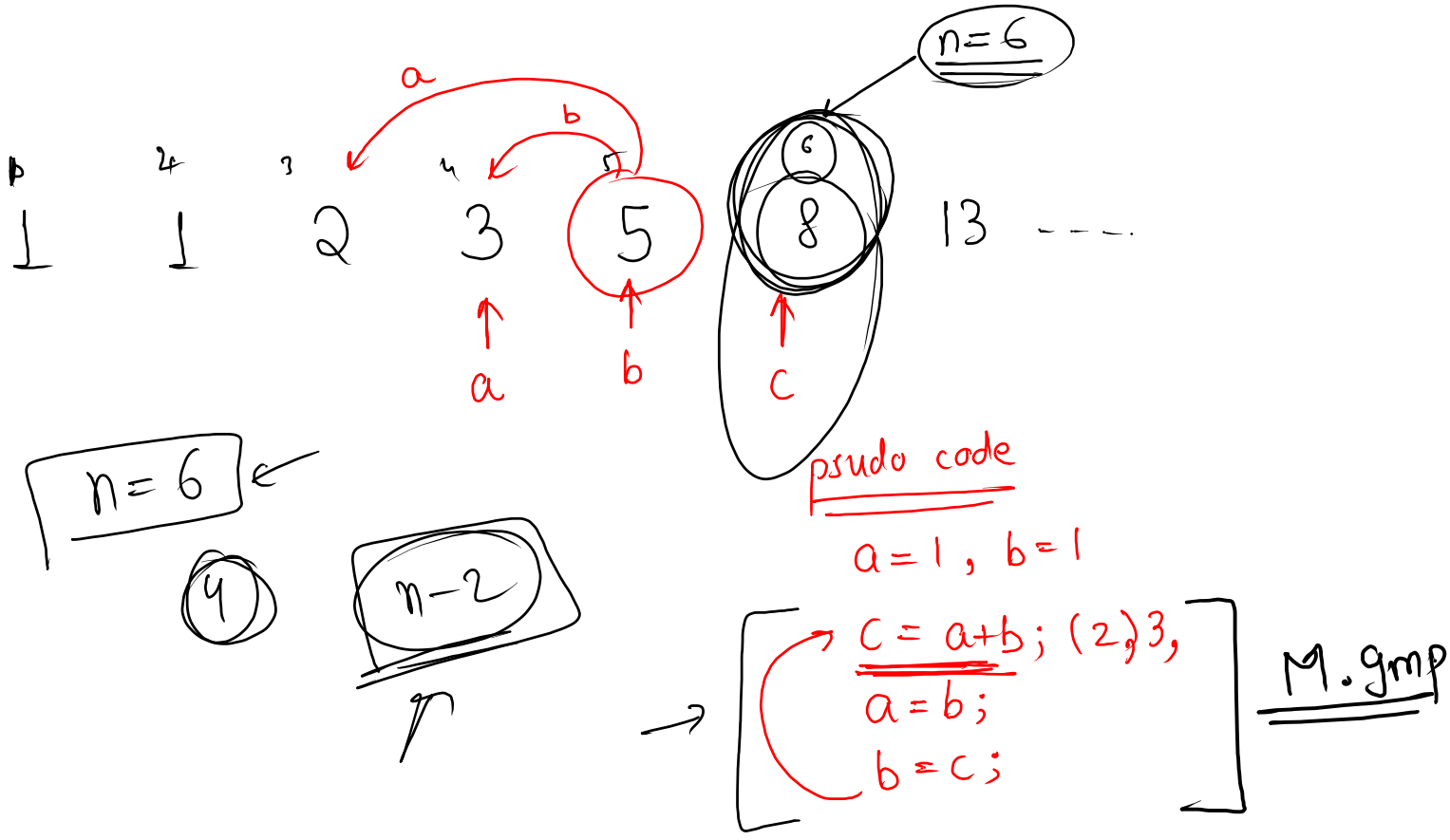
series

i/p n = 6 , ans = 8

i/p = n

code

```
int a = 1;        <-- prev.
int b = 1;        <-- prev. to prev
int i=3;
while ( i <=n ) {   // times (n-2)
    int c = a+b;
    a = b;
    b = c;
    i++;
}
```


n=6
a
b
1
1
2
3
5
8
13
a
b
c
n=6
4
n-2
psudo code
a=1, b=1
c=a+b; (2,3,
a=b;
b=c;
M.gmp

Print 0 to n

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

    int i = 0;
    while ( i <= n ) {
        System.out.println(i);
        i++;
    }
}
```

Printing 5 to N(While Loop)

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

    int i = 5;
    while ( i <= n ) {
        System.out.println(i);
        i++;
    }
}
```

Print 4,13,22,31.....n

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

    int i = 4;
    while ( i <= n ) {
        System.out.println(i);
        i += 9;
    }
}
```

Print n, n-k, n-2k, n-3k.... till l

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

    int i = n;
    while ( i >= l ) {
        System.out.println(i);
        i -= k;
    }
}
```

Running sum series

series	1	2	5	-2	0	4
RSS	1	3	8	6	6	10

Running product series

RPS	1	2	10	-20	0	0

series	1	2	5	-2	0	4