

ZIG-ZAG PRINTING ★

● ZIN-ZAN PRINTING ★
= ESSA RECURSION JISME TWO CALLS LAHAI JATI HAI!

⇒ JAb ek call hoti hai tab CODE (2) REGION ME Bat jata hai! Call se pheley wala, call se bad wala!

→ ~~★~~ Cali ke pheley wala uper jaty huay chalta hai!

★ Call Ke baad wala nichay atty huay chalta hai!

$$p \leq v \quad m(s[a]) \{$$

```
Scanner s = new Scanner(System.in);
```

```
int m = s.nextInt();
```

 $p_{ZZ}(n);$

3

$p, s, v, pzz \in \text{int } n \} \{$

if (n == 0) } Base
return; } case

Sys0 ("Pre" + n); ①]Pre

$P2Z(n-1): 2$ // call (left)

Sys0 ("In" + n); 3] In

$pzz(n-1);$ ④ call (right

Syno ("post" + n) (5) Post

3

$$\boxed{2} \rightarrow \boxed{2}_1 \xrightarrow{\text{Pre2}} \boxed{\frac{1}{2}}_{12} \xrightarrow{\text{Pre2}} \begin{array}{|c|} \hline 1 \\ \hline 2 \\ \hline \end{array}_{12}$$

Pre2
Pre1 \rightarrow

0
1
2

 $\begin{matrix} 12 \\ 12 \end{matrix}$ $\xrightarrow[\text{base case}]{\text{After}}$

1
2

 $\begin{matrix} 12 \\ 12 \end{matrix}$ $\begin{matrix} \text{Pre2} \\ \text{Pre1} \end{matrix}$

Function will wipe out all completely lines

Pre2
Pre1
In1
Post1

Pre2
Pre1
In1

After base case

Pre2
Pre1
In1

Pre2
Pre1
In1

↓

Pre 2
Pre 1
In 1
Post + 1

2 12

→

2 123

Pre 2
Pre 1
In 1
Post + 1
In 2

1
2 1234

→

1
2 1234

Pre 2
Pre 1
In 1
Post + 1
In 2
Pre 1

→ A

24

