

0th 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th
 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55
 n_1 n_2 n_n

n^{th} Fibonacci

$$n_1 = 0$$

$$n_2 = 1$$

$$n_n = n_1 + n_2 = 0 + 1$$

$$n_1 = n_2$$

$$n_2 = n_n$$

$$n_1 = 1$$

$$n_2 = 1$$

$$n_n = 1 + 1 = 2$$

$$n_1 = 1$$

$$n_2 = 2$$

0, 1, 1, 2, 3,

$$n_1 = 1$$

$$n_2 = 2$$

$$n_n = 3$$

$$n_1 = 2$$

$$n_2 = 3$$

$$n_1 = 0$$

$$n_2 = 1$$

$$n_n = 0 + 1 = 1$$

$$n_2 = n_n$$

$$n_1 = n_2$$

$$\text{II) } n_n = 1 + 1 = 2$$

$$\text{III) } 2 + 2 = 4$$

$$n_1 = 0$$

$$n_2 = 1$$

$$n_n = 0 + 1 = 1$$

$$n_1 = 0$$

$$n_2 = 1$$

0th

$n = 5$

$2 \leq 5 \checkmark$

n_1	n_2	count
0	1	2
1	1'	3
1'	2	4
2	3	5
3	5	6

↑

$$n_n = 1$$

$$3 \leq 5 \checkmark$$

$$n_n = 1 + 1' = 2$$

$$4 \leq 5 \checkmark$$

$$n_n = 1' + 2 = 3$$

$$5 \leq 5 \checkmark$$

$$n_n = 2 + 3 = 5$$

0th 1st 2nd 3rd 4th 5th
 0, 1, 1, 2, 3, 5

count = 1

$n = 5$

n_1	n_2	count
0	1	1

$$1 \leq 5 \checkmark$$

$$n_n = 1'$$

n_1	n_2	count
<u>0</u>	1	<u>1</u>
1	1'	2
1'	2	3
2	3	4
3	5	5
5	8	6

↑
ans

$$1 \leq 5 \checkmark$$

$$nn = 1'$$

$$2 \leq 5$$

$$nn = 1 + 1' = 2$$

$$3 \leq 5$$

$$nn = 1' + 2 = 3$$

$$4 \leq 5$$

$$nn = 2 + 3 = 5$$

$$5 \leq 5$$

$$nn = 3 + 5 = 8$$

$$6 \leq 5 \times$$

count = n1 mein konsi fibonacci stored ?

$$n_1 = 0$$

$$n_2 = 1$$

$$\text{count} = 0 \quad \text{0th, 1st, 2nd, 3rd}$$

$$0, 1, 1, 2$$

$$n = 0$$

n_1	n_2	count
<u>0</u> th	1	<u>0</u> th
1	1'	<u>1</u>
1'	2	<u>2</u>
2	3	<u>3</u>

$$nn = 0 + 1 = 1'$$

$$= 1 + 1' = 2$$

$$= 1' + 2 = 3$$

Reverse the Number

16 October 2022 10:13

$$12345 \xrightarrow{\text{convert}} 54321$$

$$2536 \rightarrow 6352$$

$$\underline{12345} \rightarrow 54321$$

$$\underline{2345} \rightarrow 1$$

$$\underline{345} \rightarrow 21$$

$$\underline{45} \rightarrow 321$$

$$\underline{5} \rightarrow 4321$$

$$\underline{54321}$$

①

$$\begin{array}{c} n \\ 12345 \\ \hline \end{array} \xrightarrow{\text{convert}} \begin{array}{c} n \\ 54321 \\ \hline \end{array}$$

$$123 \rightarrow 543$$

$$12 \rightarrow 5432$$

$$\underline{1} \rightarrow 54321$$

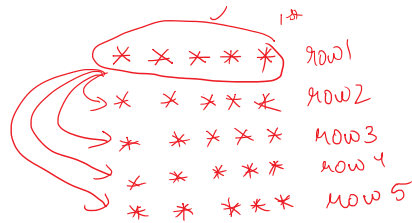
①

34

n	n / 10	rem	res
12345	1234	5	$0 = 0 \times 10 + 5$ $= 5$
1234	123	4	$\text{res} = \text{res} \times 10 + \text{rem}$ $= 5 \times 10 + 4$ $= 54$
123	12	3	$= 54 \times 10 + 3$ $= 543$
12	1	2	$= 543 \times 10 + 2$ $= 5432$
1	0	1	$= 5432 \times 10 + 1$ $= 54321$
0			

$$1200000000 \xrightarrow{\text{Reverse}} 0000000021 = 21$$

Pattern's



$$n_{st} = n - row + 1$$

$$= 5 - 1 = 4 + 1$$

$$= 5$$

2nd

row1 → *

row2 → * *

row3 → * * *

row4 → * * * *

row5 → * * * * *

0th

row1 * * * * *

row2 * * * *

row3 * * *

row4 * *

row5 *

$$n_{st} = 5 - 3 + 1$$

$$= 3$$

<p>n = 5</p> <p>row = 1</p> <p>$n_{st} = n - row + 1$</p> <p>$= 5 - 1 + 1$</p> <p>$= 5$</p> <p>$0 < 5$ ✓</p> <p>$1 < 5$ ✓</p> <p>$2 < 5$ ✓</p> <p>$3 < 5$ ✓</p> <p>$4 < 5$ ✓</p>	<p>row = 2</p> <p>$n_{st} = 5 - 2 + 1$</p> <p>$= 4$</p> <p>$0 < 4$ ✓</p> <p>$1 < 4$ ✓</p> <p>$2 < 4$ ✓</p> <p>$3 < 4$ ✓</p>
<p>* * * * *</p> <p>* * * *</p> <p>* * *</p> <p>* *</p> <p>*</p>	<p>row = 3</p> <p>$n_{st} = 5 - 3 + 1$</p> <p>$= 3$</p> <p>$0 < 3$ ✓</p> <p>$1 < 3$ ✓</p> <p>$2 < 3$ ✓</p>

<p>row = 4</p> <p>$n_{st} = 5 - 4 + 1$</p> <p>$= 2$</p> <p>$0 < 2$ ✓</p> <p>$1 < 2$ ✓</p> <p>$2 < 2$ ✗</p>	<p>row = 5</p> <p>$n_{st} = 5 - 5 + 1$</p> <p>$= 1$</p> <p>$0 < 1$ ✓</p> <p>$1 < 1$ ✗</p>
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— — — — * row1

— — — * * row2

— — * * * row3

— * * * * row4

* * * * * row5

spaces

n - row

stars

row

```
int a = 5;
a ++; Post increment
b --;
```

→ Pre increment
 ++ a;
 -- decrement → 1

~~a = 5~~ 6 7

```
→ a = 5; ✓
print(a); ✓
a ++; ✓
print(a); ✓
print(a ++); ✓
print(a); ✓
```

Post : Pehle
Use

output : 5
6
6
7

```
a = 5; ✓
print(a); ✓
++ a; ✓
print(a); ✓
print(++ a); ✓
print(a); ✓
```

→
~~a = 5~~ 6 7
 a = 8

output : 5
6
7
7

Pre : Pehle
Update

```
int a = 6; ✓
int b = 5; ✓
```

```
int c = (a) + (++a) + (b--) + (a++) + (b++) + (++b); ✓
print(a); 8
print(b); 6
print(c) 35
```

a = 6 7 8
 b = 8 4 8 6
 c = 6 + 7 + 5 + 7 + 4 + 6 = 35