


→ Today we have a doubt class (1-1.5hr)

10 →
01 →
00 →
0

tomorrow we will have a regular class (2hr)

- 1) Subtask ✓
- 2) left & right shift
- 3) Indentation ✓
- 4) Bitwise
- 5) input().split ✓
- 6) while
- 7) Errors (N2EC, RE) ✓
- 8) Constraints
→ Time Limits
- 9)  } n=5
- 10) clj

$$2^{n-\text{row}} + 1$$

$$\underline{n=5}$$

row 1

-- -- ★

row 2

-- ★ ★ ★

row 3

★ ★ ★ ★ ★

row 4

-- ★ ★ ★

row 5

-- -- ★

$$2^{(5-4)+1}$$

$$2^{1+1} = 3$$

$$2^{(5-5)+1}$$

$$1$$

$$5 \rightarrow 3$$

$$\left(\frac{5}{2} + 1 \right)$$

row

$$\frac{5}{2}$$

$$1$$

2,

-- -- -- ★

3,

-- ★ ★ ★ ★ ★

4,

★ ★ ★ ★ ★ ★ ★

5,

-- ★ ★ ★

6,

-- -- ★

7


$$\left(\frac{7}{2} + 1 \right)$$

$$2^{(7-5)+1}$$

$$2^{(7-6)+1}$$

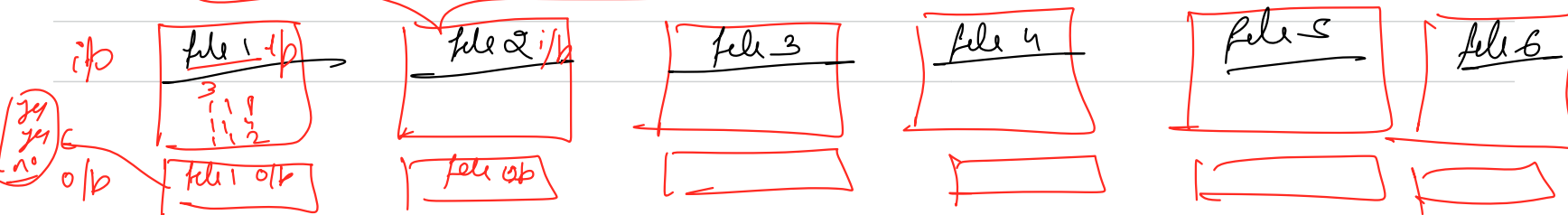
$$\text{row} = \frac{7}{2} - 1$$

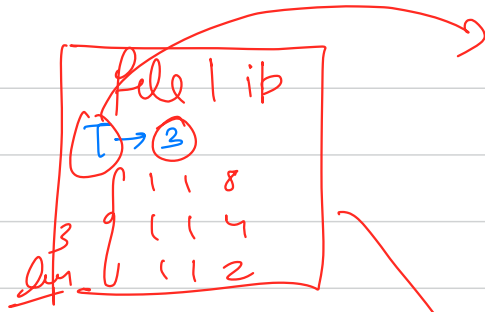
$$6 - 3 = 3$$

360 \rightarrow 



multiple files of test cases





How many test case you get in
1 file



1 sec \rightarrow 10^8 operations

Solve 1 file in 1 sec

Ques

Solve

file 1
 $T \leq 10^4$
=
=
=

Subtask

file 2
 $T \leq 10^5$
 $Q \leq 10^3$

Subtask 2
CC
30 pts

file 3

Ed \rightarrow N \rightarrow if it is prime or not

Subtask 1
 $N \leq 10^4$

Subtask 2
 $N \leq 10^9$

30 pts

10^2 $< 1 \text{ sec}$

N iterations

$2 \rightarrow N-1$

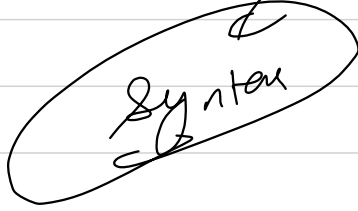
$< 1 \text{ sec}$

70 pts

$\approx 10^9$ $< 1 \text{ sec}$

\sqrt{N} iterations

print



print(I/O)

1 → Don't copy paste python code

2 → Try to indent properly on first go

$$361 = (0110100)$$

$$\underline{\underline{x = 361}}$$

takes binary of x $x \gg 2$ (x right shift 2)

shift to right \rightarrow shift to right

10110100 \rightarrow 010110100

$$\begin{array}{ccccccc} 0 & 0 & 1 & 0 & 1 & 1 & 0 & 1 & 0 \\ & & 6 & 5 & 4 & 3 & 2 & 1 & 0 \end{array}$$

$$64 + 16 + 8 + 2$$

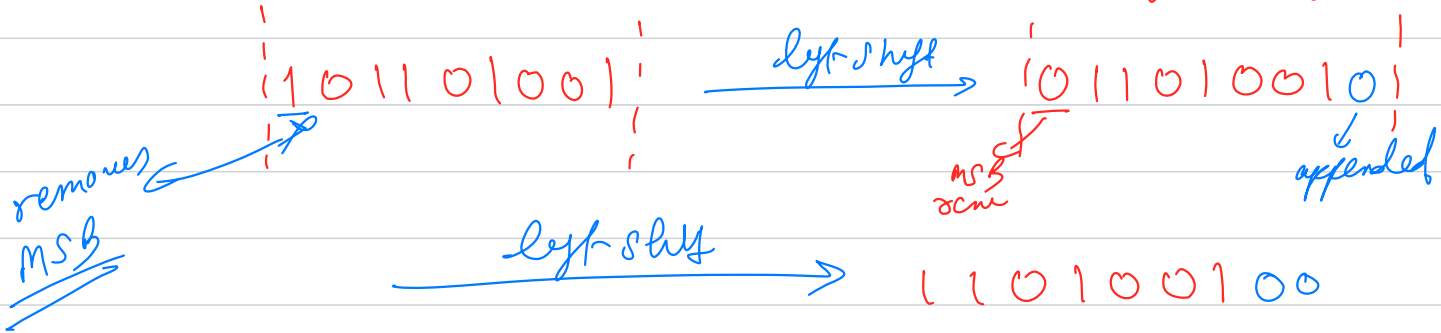
$$80 + 10 = 90$$

2

$$361 = (0110100)$$

$$\underline{\underline{x = 361}}$$

$$x \ll 2 \quad (x \text{ left shift } 2)$$



$$\textcircled{1 < 3}$$

↓

0001 → 10 → 100 → 1000

↓
2³

```
3 i = 1
```

```
4
```

```
5 while i < 10:
```

```
6     print("value")
```

```
7     i = i + 1
```

```
8
```

is this condition True??

if yes then go inside the block

NO

as soon as it reaches end of block of while

it goes to line 5 again

