

Ques Cyclic Left Shift

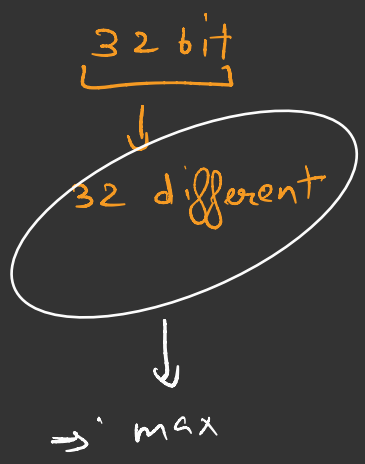
$N \rightarrow 1 \leq \textcircled{N} \leq 2^{32} - 1$

→ 32 bit number

$$\frac{1}{7} \frac{0}{6} \frac{1}{5} \frac{1}{4} \frac{0}{3} \frac{1}{2} \frac{1}{1} \frac{1}{0}$$

1	0	1	1	9
0	1	1	1	7
1	1	1	0	14
1	1	0	1	13
1	0	1	1	9

⇒ 14



n

$$\frac{1}{7} \frac{0}{6} \frac{1}{5} \frac{1}{4} \frac{0}{3} \frac{1}{2} \frac{1}{1} \frac{1}{0}$$

1 0 1 1 1 1 0 1

3rd

$n < 3$

1 0 1 1 1 0 0 0

$n > 5$

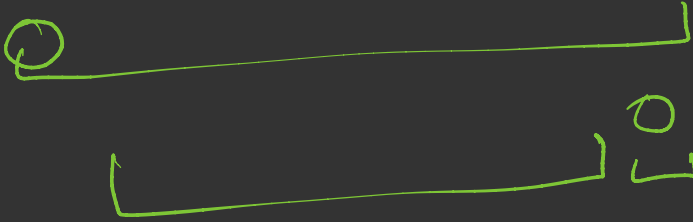
0 0 0 0 0 1 0 1

1 0 1 1 1 1 0 1

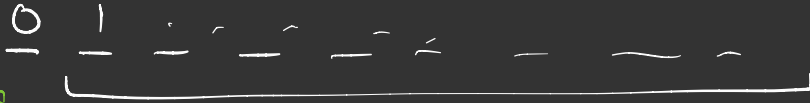
1 → 32

i

(n)



(32)



32bit

1 << 1

→ 10 → 2

100 → 4

1000 → 8

-1

0 0 0 0 0 0 0 0 1

1 1 1 1 1 1 1 1 0

+1

1 1 1 1 1 1 1 1 1

0 0 0 0 0 0 0 0 0

+1

1 1

→ -1