$\boxed{J}$

Time Limit : $n\log^2 n$

mem : $n \log n$

$10^6 \times 4$ byte

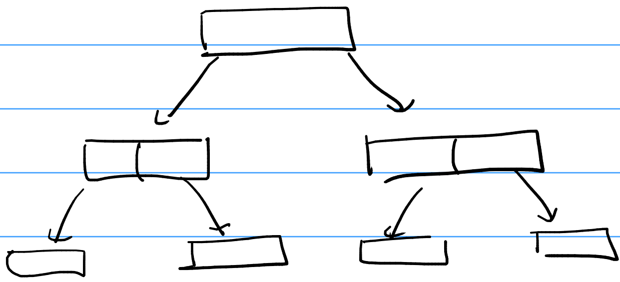
4×10^6 byte

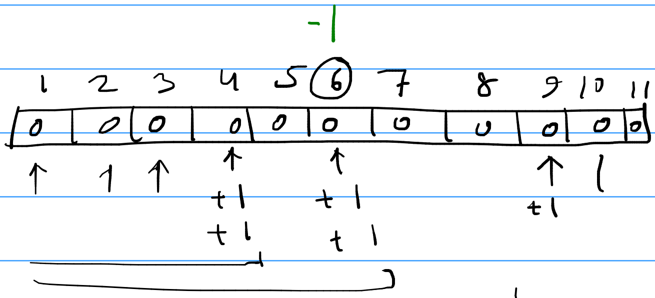
$\boxed{4MB}$

4000 KB

28000 KB

$\boxed{n\log n}$



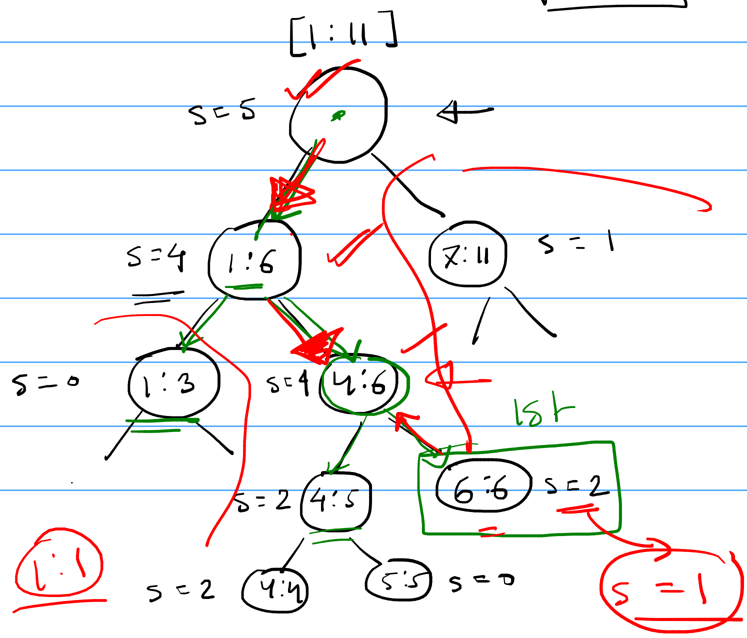


+9

+6 +4

$\boxed{3rd}$

6



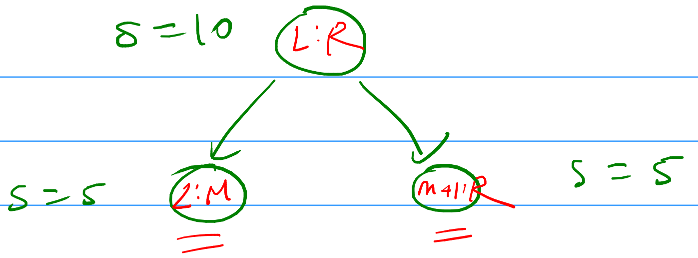
s=0

3rd

4:6

3rd

7^{th} element



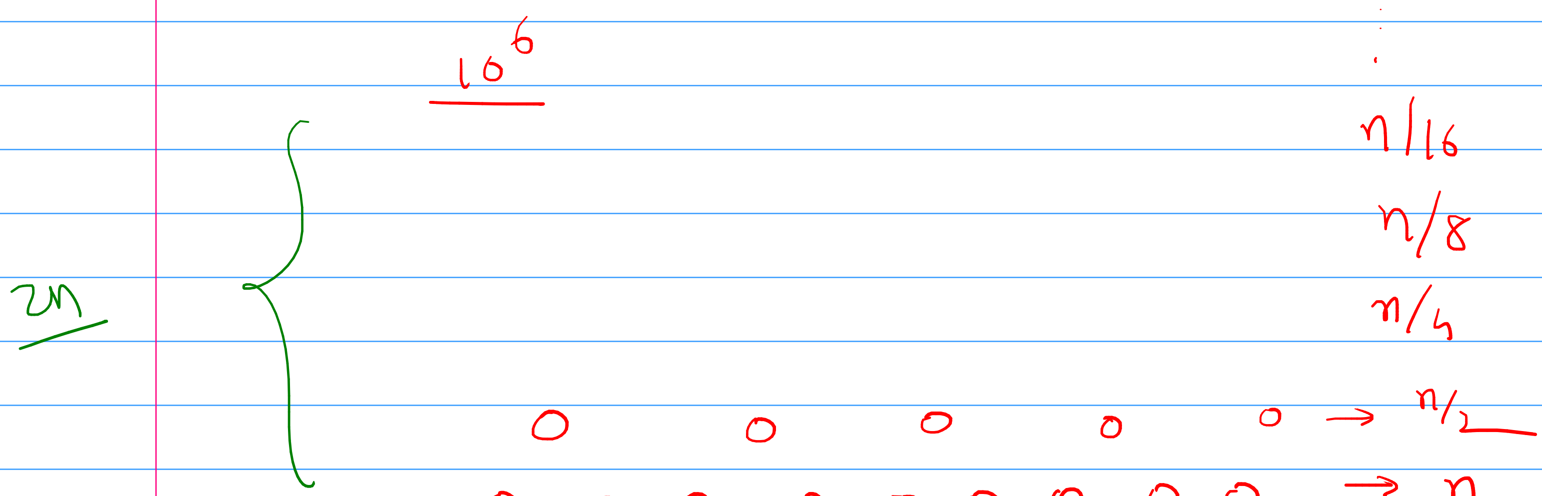
solve(node, 7)

if node.left.sum $\geq$ 7:
    solve(node.left, 7)

else:
    solve(node.right, 7 − node.leftsum);

$\boxed{4n}$

10^6



$$n + \frac{n}{2} + n/4 + n/8 + n/16 + \dots = n\left(1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots\right)$$

$$= 2n$$

Harmonic: $\frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \dots = \sum_{n=1}^{\infty} \frac{1}{n}$

$r = \frac{1}{2}$

$a, \ ar, \ ar^2, \ ar^3, \ ar^4, \ \dots$

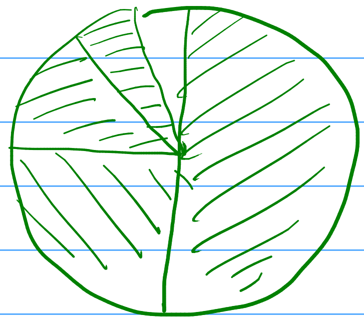
nth term

$\frac{a(r^n - 1)}{r - 1}$

$= \underbrace{\frac{a}{1-r}}$

$r < 1$

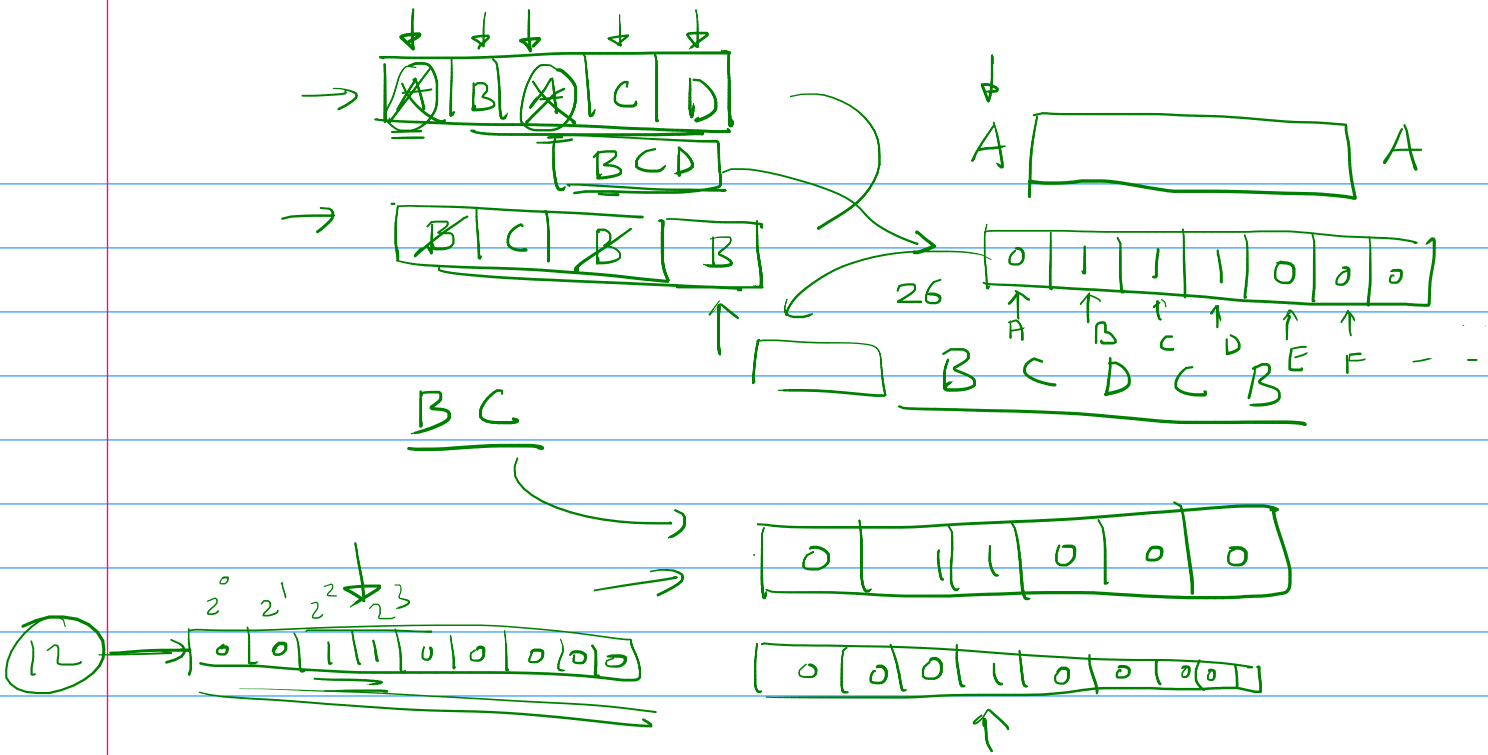
$= \frac{1}{1 - 1/2} = \boxed{2}$



2 KG

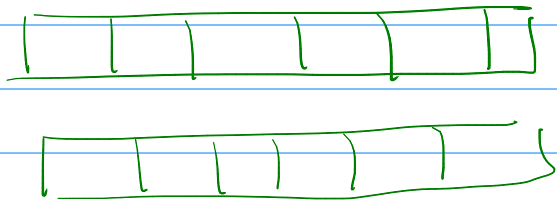
$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots = 2$

Walking over Segment Tree



BCD —

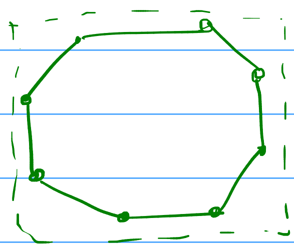
BC →



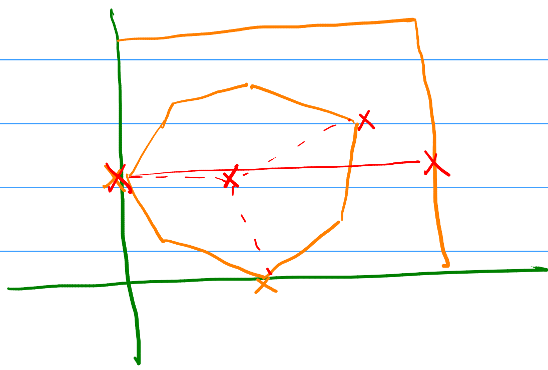
$\boxed{n \times 26 \times \log n}$

no

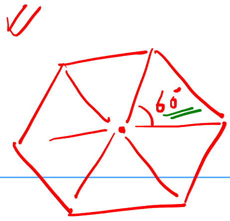
2n

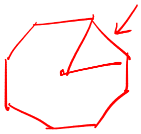


2n - gon



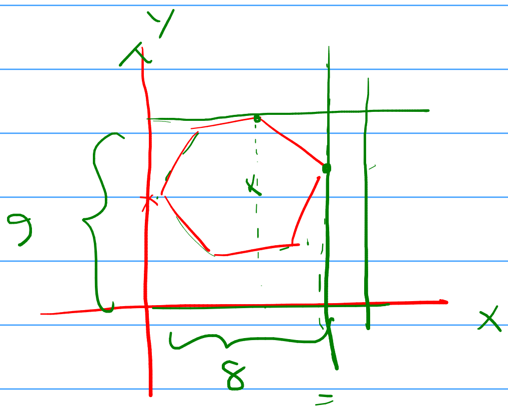
3 - at least



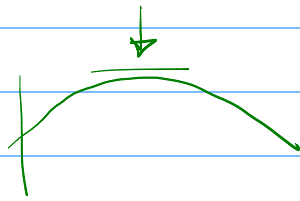


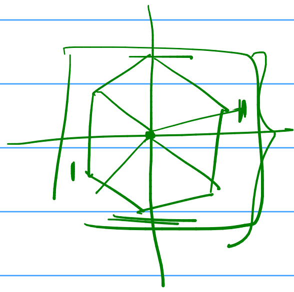
$\frac{\pi}{8} =$

$\frac{180}{8} = 22.5$



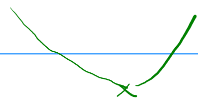
$\theta =$





X

Y

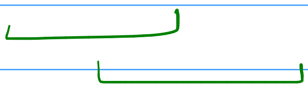


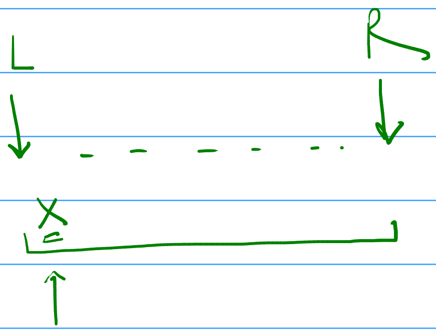
$L + \frac{H-L}{3}$

$\theta_L = 0 \longrightarrow \boxed{\theta_1 =}$

$\theta_H = \frac{\pi}{2n} \longrightarrow \boxed{\theta_2 =}$

$H - \frac{H-L}{3}$

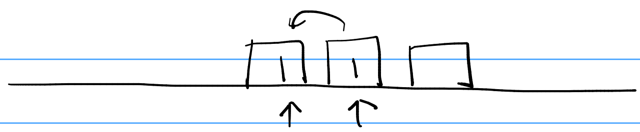




x

$(-1) - (0)$

$= -1$



$+1$

inversion

0 1 $+5$

$+1$ $+2$ $+2$ $+2$

0, 1, 0, 0, 1, 0, 0, 0, 1, 1

inversions
$\boxed{8}$

$+5$ $+3$

earliest 0 → 1

last → 1 → 0

$\text{ans} = \boxed{0 + 0 + 3 + 5} = 8$

zero $= 0 + 1 + 1$
$= +1 = 3$
$= 4$
$= 5$
$= 6$

0, 1, 0, 0, 1, 0, 0, 0, 1, 1

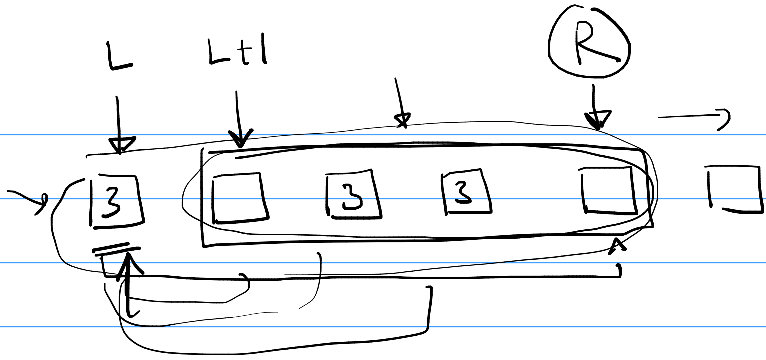
n^2

$n = 2 \times 10^5$

4×10^{10}

$= 400$ sec

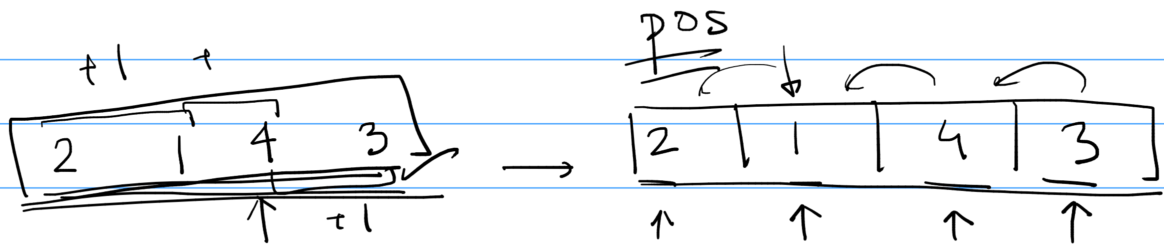
$>k$



First R, such that the sub-[L:R] contains more than K distinct values ✓

R-L-1

ans = 1



→ 1
→ 2, 3
→ 4

4 , 2 , 1 , 5 , 3

pos: 3 2 5 1 4

ans = 1 + 1 + 1 = $\boxed{3}$

J

2

L

<u>pos:</u>