

Square Root Decomposition on Arrays

Course on Square Root Decomposition

Levier

Trees (Bonus) Mo's algorithm

Utkarsh Gupta • Lesson 2 • June 23, 2021

we shoote the part B 0 (B+ N)

T = O(B + N)-> (alulu -> AM=6M BIN =) B = 5N

Best value of B, A
$$T = O(B^2 + \frac{N}{B})$$

A. $N^{1/2}$

B. $N^{1/2}$

B. $N^{1/2}$

C. $N^{1/2}$

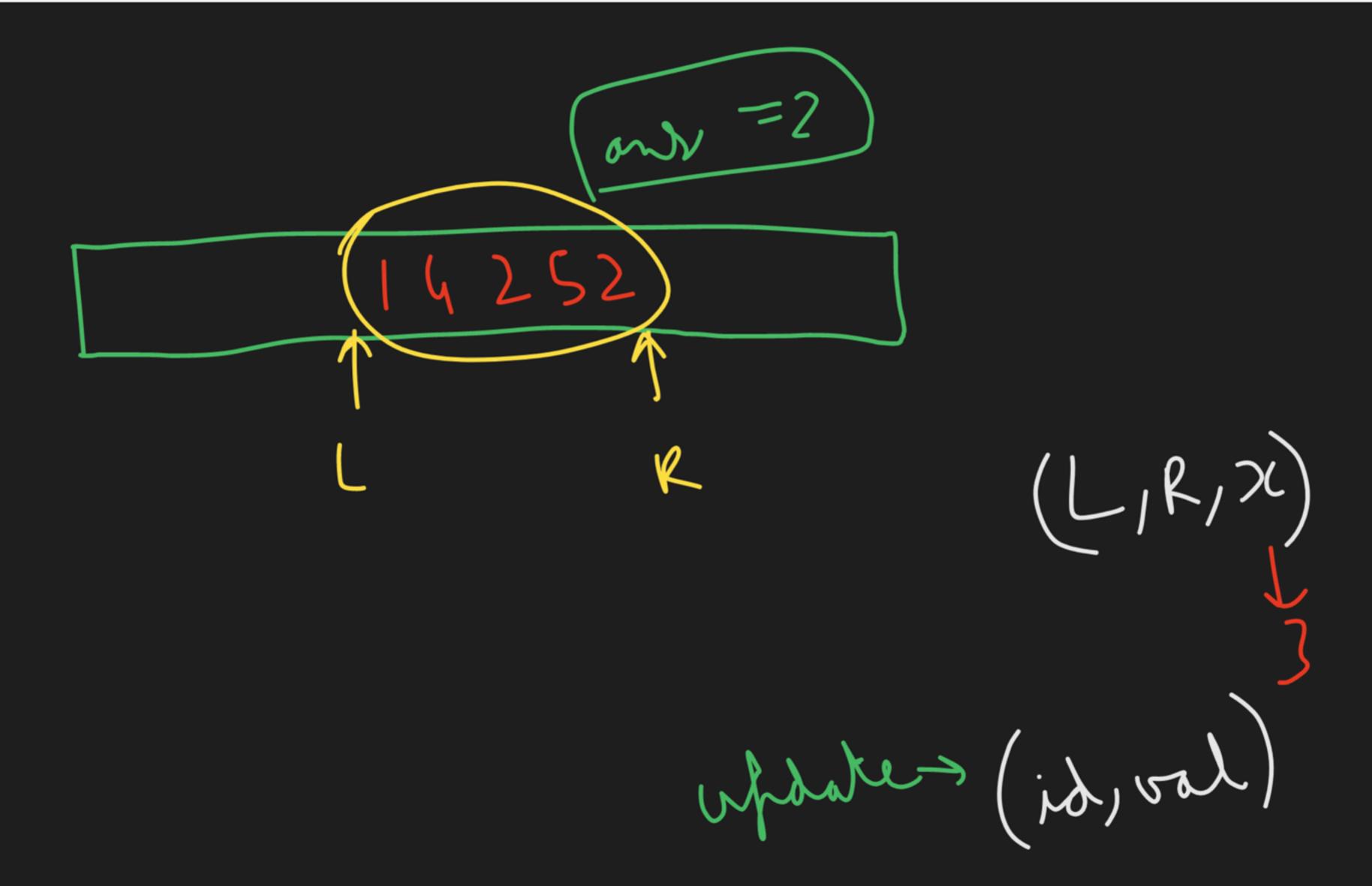
D. $(N \log_2 N)^{1/2}$

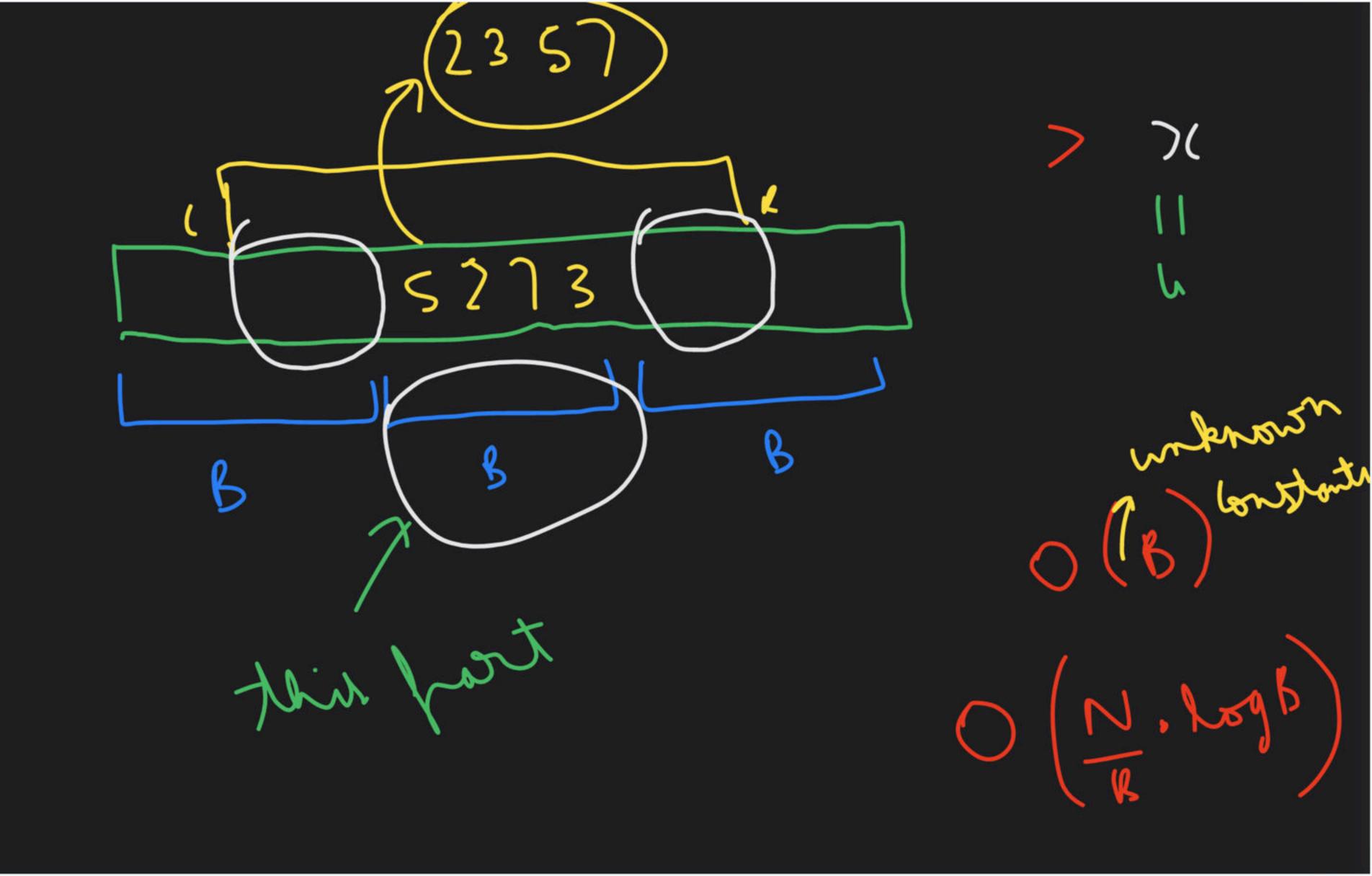
E. $N^{1/2}$ (rog N)

B² = <u>C</u> B= 35N

Bust value of B, if T=O(B+WlogN) A. N/2 B. N C. N/14 D. (Nlog N)''s E. N''2 (Loy W)

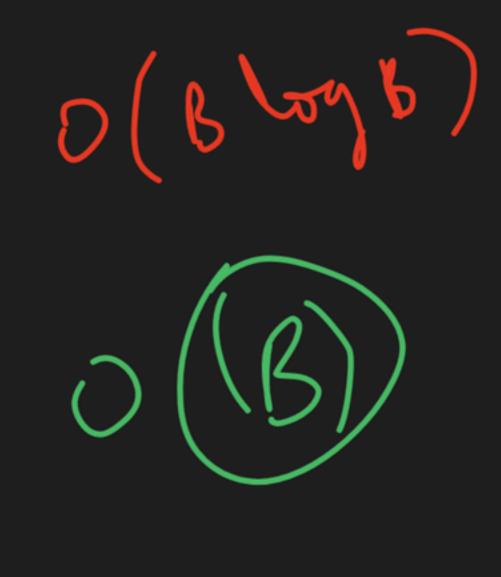
K= NlogN O(B+K) B= JK = JNlogN





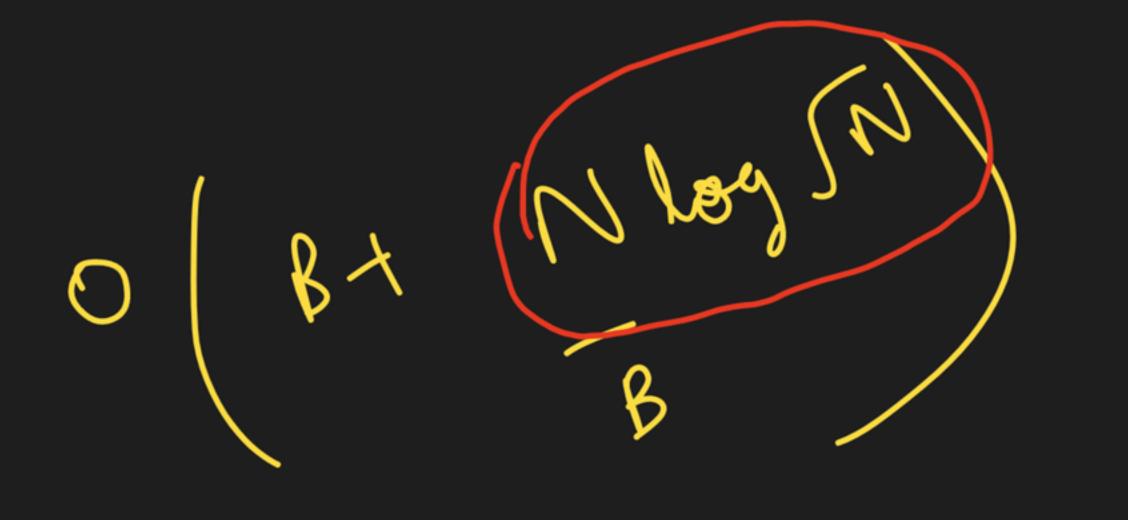
2 my 182501 Nad Na OBX Whays Mog B

235 Leonal Realist 5 2 7



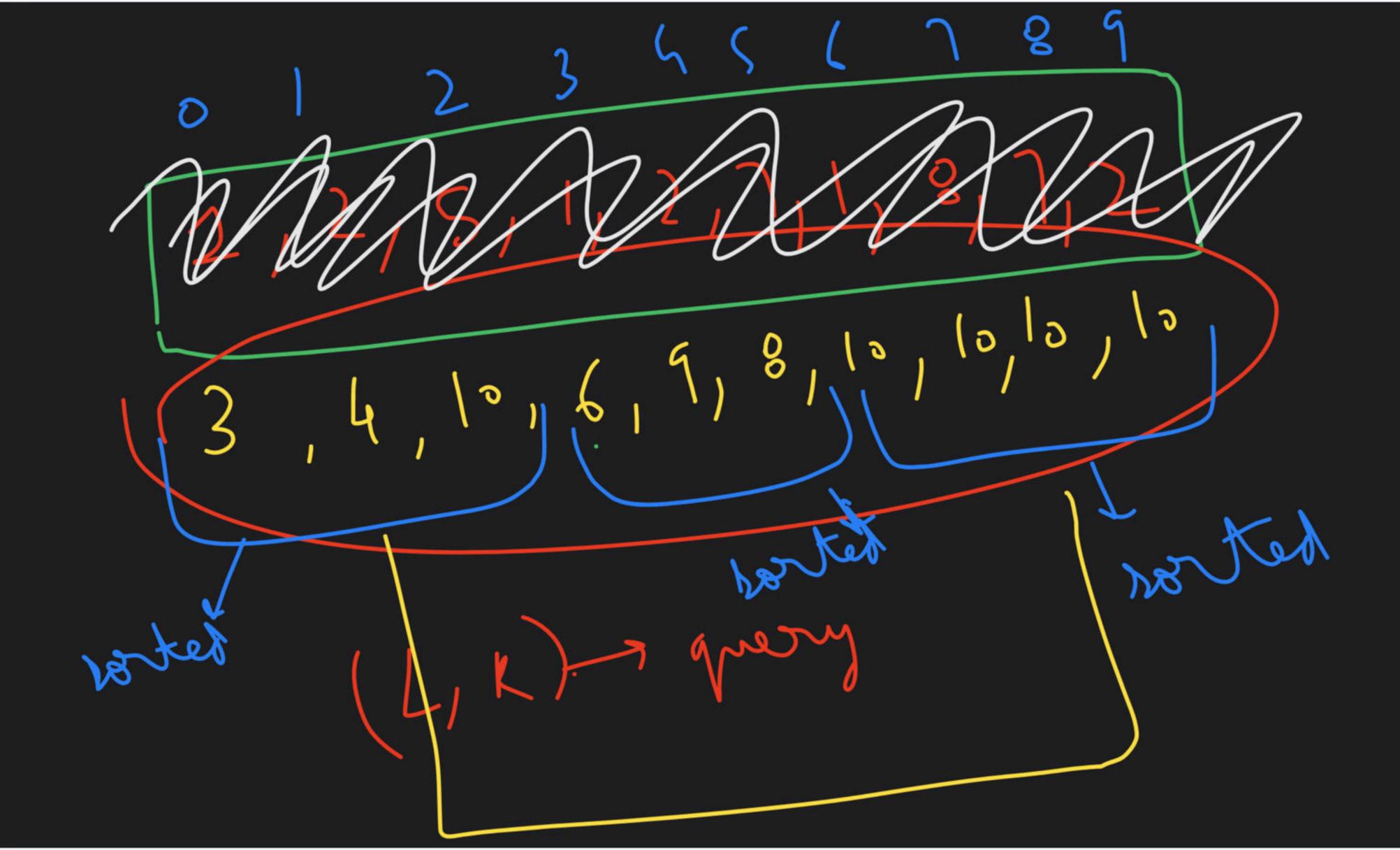
B

O(B+NlogB)~O(B+NlogN) Affron hert value of B? B= slightly 525



B= INlogJN= JNgN

[) 2 won truting Ments 121523

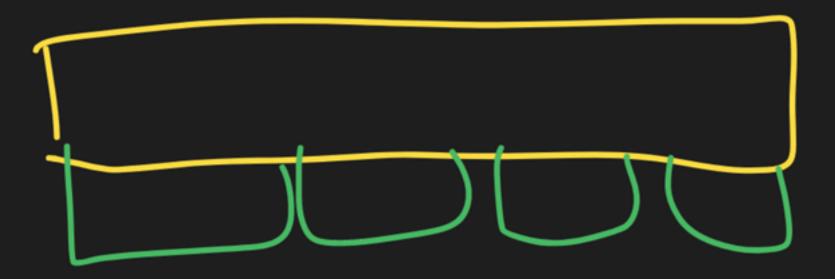


Kamery fræklen no. of elements in range [LIK] which we >R discussed railes 13hm

prefix rum (mæt frakenikkur) turtelus (> Ha) 2 distinct

11=3 wing syrt deromposition 2 3 4 6 1 2 1 5 1. [L/R] -> sum of Mements 2. (L, R, X) -> add >1 to all plements in runge (L. R)

Dumt Bx DC Lazy-value + = x



Paragation haten guld 105 m



mod reffer - retoers >= -> lower bound bestra

