



Facebook] -> code storywith MIK

(Twitter) > CS with MIK

codestorywith MIK -> Q

"No more Jean of Segment Tree"

go for it 39 methins,

video - 3

Recap :

- we underestood about segment Tree? what? why? when?
- buildSegmentTree
- Example Range Sum in an average
- UPdate Guery

Query in Segment

" Inee

Example:- Range Sum Query

 $nums = \{3, 1, 2, 7, 2, 1, 2, 3\}$

Find Sum
$$\rightarrow$$
 $(2, 4) = (2+7+2)$

Find Sum \rightarrow [1,5] = 1+2+7+2+1

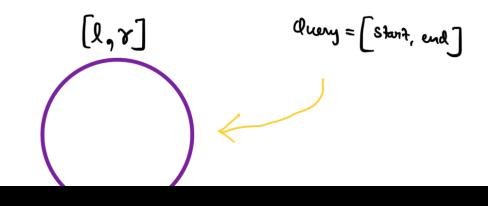
Find Svm $\rightarrow [2,6] = \cdots$

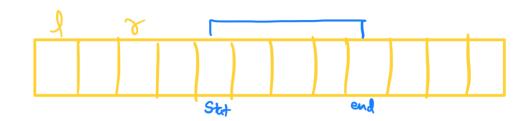
<u>etc..</u>

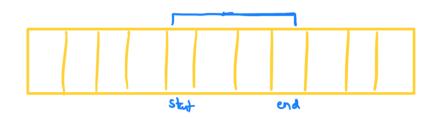
build Segment Trice
$$(0, 0, 7)$$

Orange [2, 6]

Or





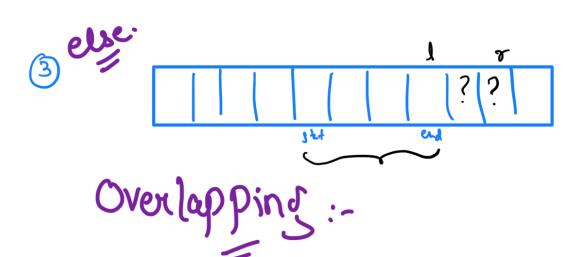


[1,7] is entirely inside (start, end)

return segTree [i];

(1>= Start && & <= end) {

return segTree [i];



return Query (left value) + Oun (right value).

Thee Diagram (STORY)

to

Code

...

Pury (start, end, 0, 0, n-1);

int Query (stort, end, i, l, r) {

1 (1 > 001 11 ~ (0 > 1) "

return 0;

i) (l>=stort && r<=end) {

return segimee[i];
}

Return Query (Start, end, 2*i+1, 1, mid)

Query (Start, end, 2*i+2, mid+1, T);

Time Complexity:

(a) (1) (2, 6)

