Segment Tree

Concepts & Qns...

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"No more fear of Segment Tree"

#Motivation

" If your basics/concepts are clear, no one can stop you. "

video - 6

Recap :-

- We understood about segment Tree ? what ? why ? when ?
- buildSegmentTree
- Example - Range Sum in an array
- Update Query
- Range Query
- Why take 4*n size array

Qn-1: Sum Query - II

Range Mimimum Query...

GFG

Range Minimum Query

Difficulty: **Medium** Accuracy: **62.3%** Submissions: **6K+** Points: **4**

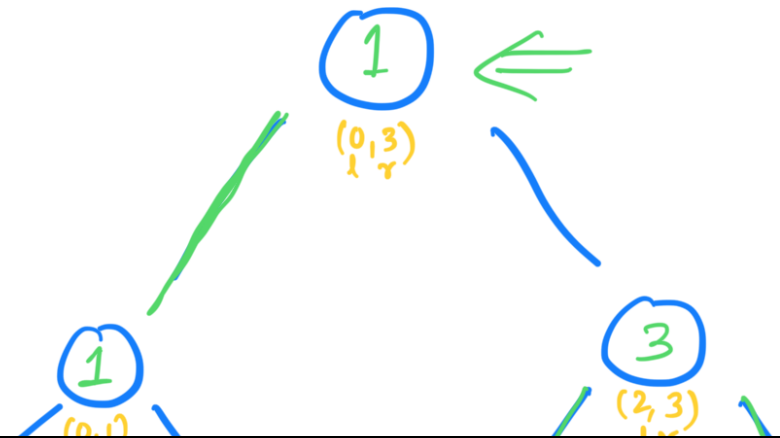
Given an array **A[ ]** and its size **N** your task is to complete two functions a **constructST** function which builds the segment tree and a function **RMQ** which finds range minimum query in a range [a,b] of the given array.

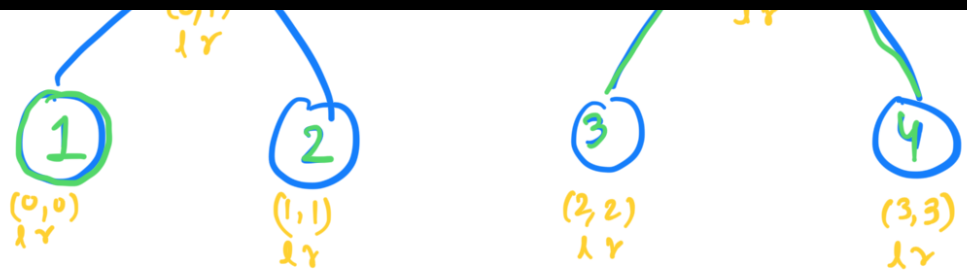
Input:
The task is to complete two functions **constructST** and **RMQ**.
The constructST function builds the segment tree and takes two arguments the array **A[ ]** and the size of the array **N**.
It returns a pointer to the first element of the segment tree array.
The **RMQ** function takes 4 arguments the first being the segment tree **st** constructed, second being the size **N** and then third and forth arguments are the range of query **a** and **b**. The function RMQ returns the **min** of the elements in the array from index range a and b. There are multiple test cases. For each test case, this method will be called individually.

Output:
The function **RMQ** should return the min element in the array from range **a** to **b**.

arr = {1, 2, 3, 4}

RMQ = a = 0, b = 2 } Output = 1




1
2
3
4
(0,0)
(1,1)
(2,2)
(3,3)