**[Range Minimum Query](https://practice.geeksforgeeks.org/problems/range-minimum-query/1?page=1&category%5b%5d=Segment-Tree&sortBy=submissions)**

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**.

**Example:**

**Input (To be used only for expected output)**

1

4

1 2 3 4

2

0 2 2 3

**Output**

1 3

**Explanation**

**1.** For query 1 ie 0 2 the element in this range are 1 2 3

  and the min element is 1.

**2.** For query 2 ie 2 3 the element in this range are 3 4

  and the min element is 3.

**Constraints:**  
1<=T<=100  
1<=N<=10^3+1

1<=A[i]<=10^9  
1<=Q(no of queries)<=10000  
0<=a<=b