Advanced Balanced Search Tree

Segment Tree

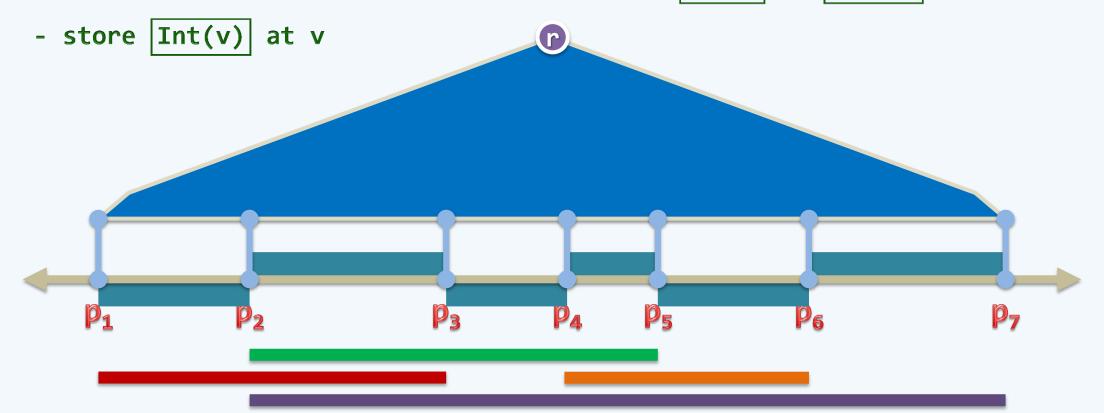
BBST

邓俊辉

deng@tsinghua.edu.cn

Replacing The Sorted Vector With A BBST

- ❖ For each leaf v,
 - denote the corresponding elementary interval as <a>EI(v)
 - denote the subset of intervals containing $\boxed{\text{EI(v)}}$ as $\boxed{\text{Int(v)}}$ and



1D Stabbing Query

- \diamond To find all intervals containing q_x , we can
 - find the EI(v) containing q_x

- and then report <a>Int(v)

// O(logn) time for a BBST

//|O(1 + k)| time

