

Windowing Query

Stabbing With A Segment

- Interval Tree

Junhui DENG

deng@tsinghua.edu.cn

Main Tree + Associative Trees

❖ Build an \boxed{x} -interval tree as the main tree

❖ For each node v with an S_{mid} ,

replace $L_{\text{left}}(v)$ & $L_{\text{right}}(v)$

with two 2D range trees

- L-tree: stores the left endpoints of segments in S_{mid}
- R-tree: stores the right endpoints of segments in S_{mid}

