Windowing Query

Stabbing With A Segment

- Query Algorithm (2)

θ8-E-04

Junhui DENG

deng@tsinghua.edu.cn

❖ If $\boxed{q_x = x_{mid}}$

   - check and report

       all segments in S_{mid} if they

       lie within $[q_y, q_{y'}]$

❖ If $\boxed{q_x > x_{mid}}$

   - query $\boxed{R\text{-tree}}$ with

     $\boxed{[q_x, +\infty) \times [q_y, q_{y'}]}$

   - search $\boxed{R\text{-subtree}}$ recursively

$q_x < x_{mid}$

W

2D range query

for LEFT endpoints