

Windowing Query

Orthogonal Windowing Query

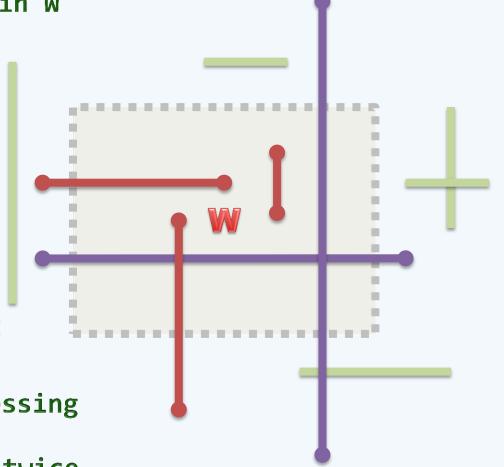
- Classification

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Type A

- ❖ Segments with one or both endpoints in W
 - can be found
 - using a 2D range tree
 of size O(nlogn)
 - in $O(r + \log^2 n)$ time
 - //improved to O(r + logn) by FC
 - after an O(nlogn) time preprocessing
- Some segments may be reported/counted twice
- B How to remove the duplicates?



Computational Geometry, Tsinghua University

Type B

❖ It's possible that a segment intersects W,

but neither endpoint lies in W

This type of intersections are more complicated

❖ Let's first study the ☐D case, and

then extend the method to 2D case ...

