

Windowing Query

Stabbing With A Segment

- Definition

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Input

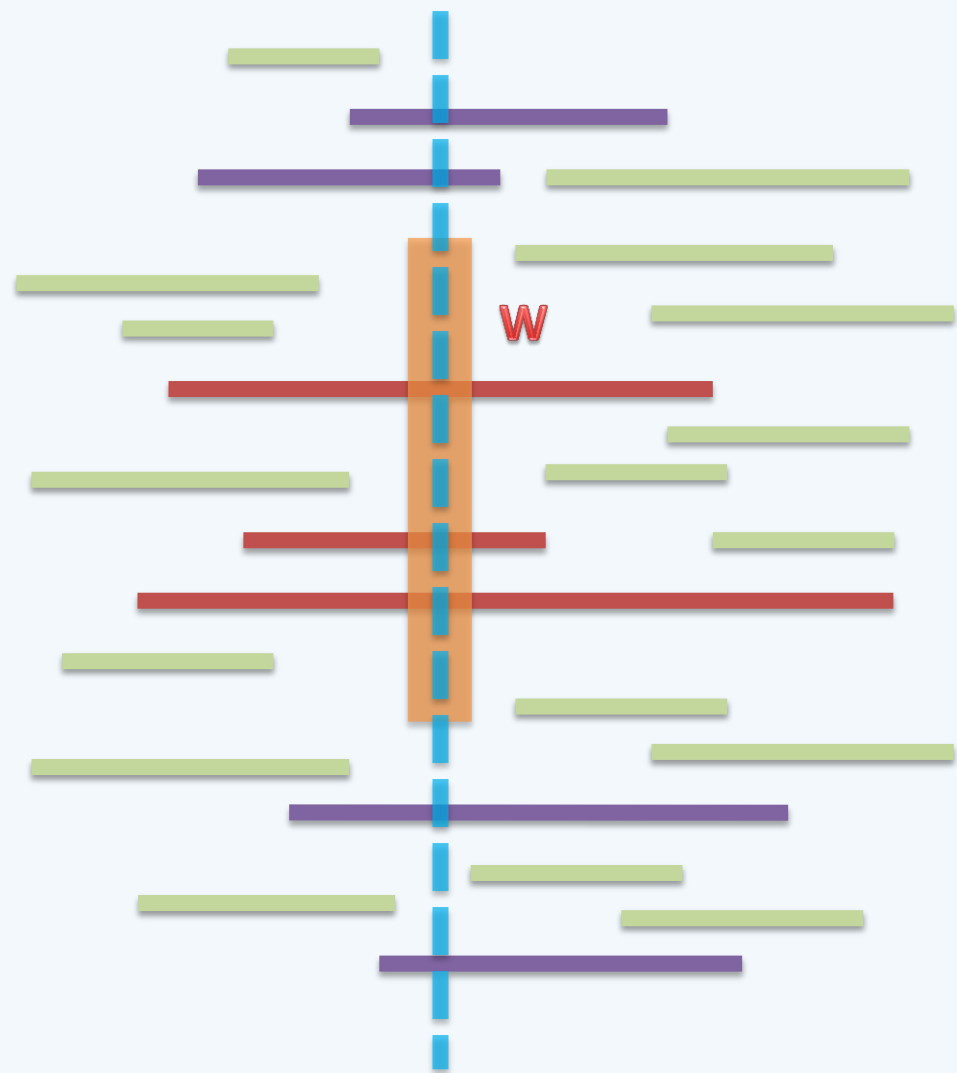
❖ A set of horizontal **segments**

in general position in the plane

$$S = \{s_i = [p_i, p_i'] \mid 1 \leq i \leq n\}$$

A vertical query **interval**:

$$W = q_x \times [q_y, q_y']$$



Output

❖ All segments that intersect

the query segment:

$$\{s_i \mid s_i \cap W \neq \emptyset\}$$

