

# Windowing Query

## Orthogonal Windowing Query

### - Definition

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## Input

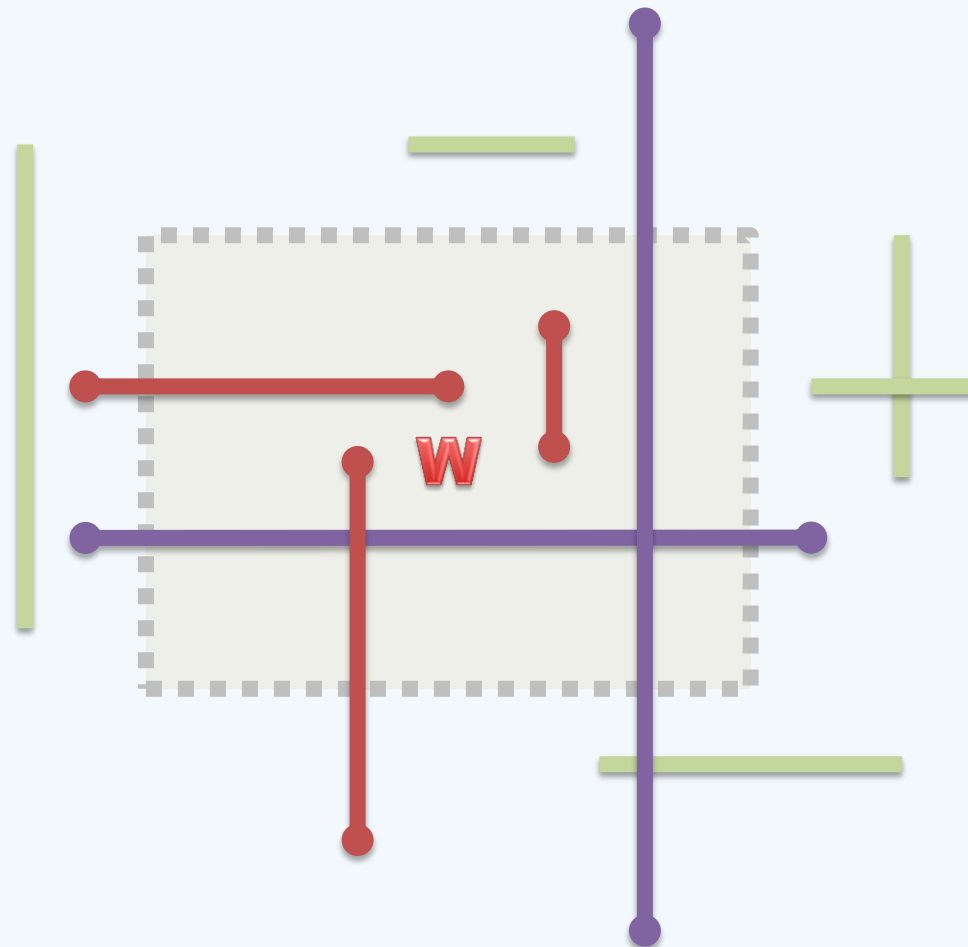
❖ A set of axis-parallel **segments**

in general position in the plane

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

❖ A closed query **window**:

$$W = [x, x'] \times [y, y']$$



## Output

❖ All line segments that

intersect the window:

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

👁 The output segments

can be divided

into 2 types ...

