

Windowing Query

Stabbing Query

- Vertical Stabbing Query

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Input

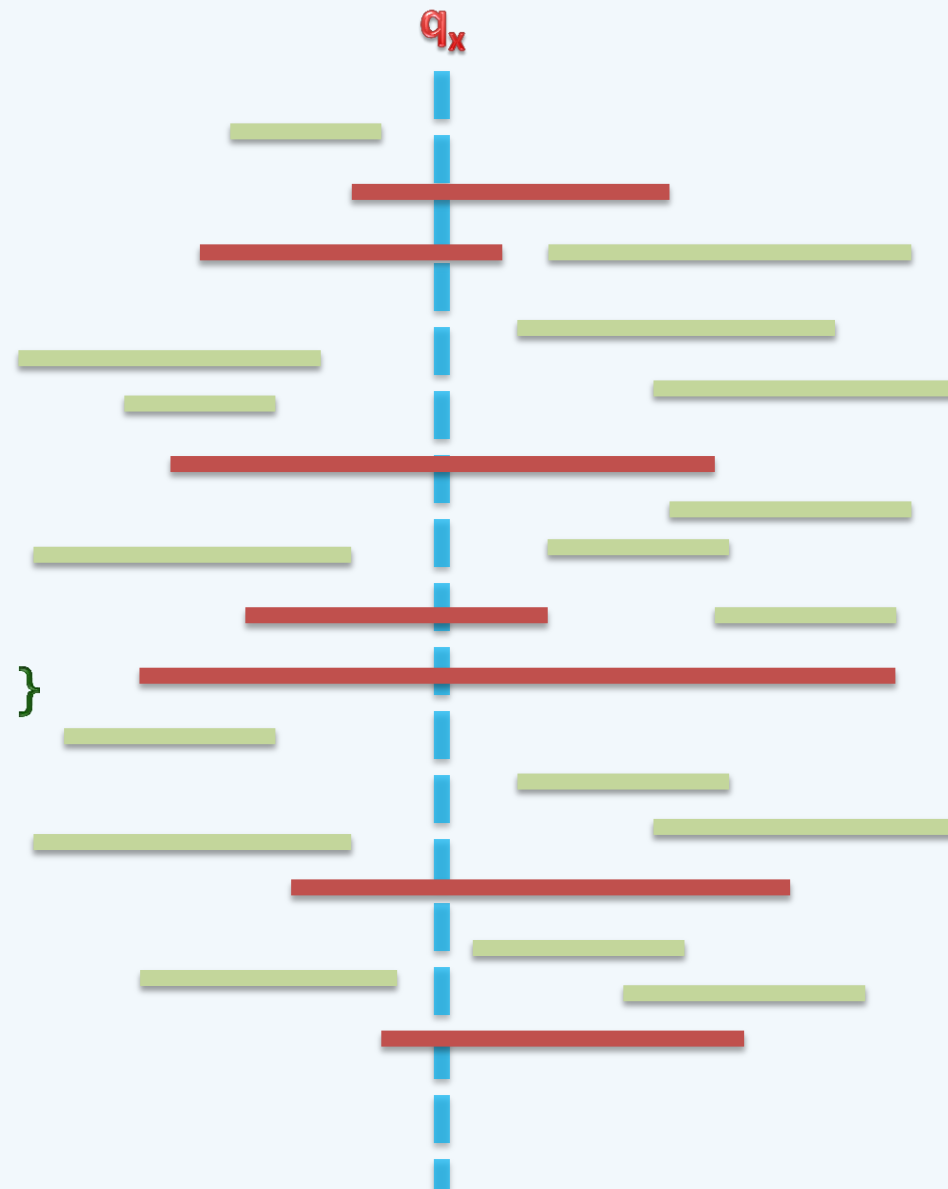
❖ A set of **intervals**

in general position

on the **x**-axis

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

❖ A query **point**: q_x



Output

❖ All intervals that contain q_x

$$\{ s_i = [x_i, x_i'] \mid x_i \leq q_x \leq x_i' \}$$

❖ To solve this query,

we will use

a structure named

interval tree ...

